

# Assignment -2

## Flask

Assignment Date	22 September 2022
Student Name	Kaavya S
Student Roll Number	111519205017
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.

**Signin page:**

signin page

Enter your name

email

Register Number

Password

signin

Already have account?  
[Login](#)

## CODE: (signin.html)

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="UTF 8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Sign in</title>
    <style>
      h1{
        text-align:center;
        font-size: 8ch;
        color:black;
      }
      body{
        background-color:rgb(182, 40, 111);
        text-align:center;
        background-position: center;
        background-size: cover;
      }
      p{
        color:beige;
        font-size: x large;
        font-family: Verdana, Geneva, Tahoma, sans-serif;
      }
      small{
        color:black;
        font-size:larger;
      }
      input[type-submit]{
        background-color: rebeccapurple;
        border: none;
        color: aliceblue;
        padding: 15px 10px;
        text-decoration: none;
        margin: 2px 2px;
        cursor: pointer;
      }

    </style>
  </head>
  <body>
    <h1>signin page</h1>
    <form method="POST" action="">
      <p>Enter your name</p>
      <input type="text" name="username" maxlength="20" size="20"
required>
      <p>email</p>
```

```

        <input type="text" name="email" id="email" maxlength="20" size="20"
required>
        <p>Register Number</p>
        <input type="text" name="regno" id="regno" maxlength="20" size="20"
required>
        <p>Password</p>
        <input type="Password" name="Password" id="Password" maxlength="20"
size="20" required><br><br>
        <input type="submit" value="signin"><hr>
        <small><u>Already have account?<a href="{ url_for('login') }">
<br></u>Login</a></small>

    </form>
</body>
</html>

```

## Code(login.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:brown;
            }
            input[type=submit]{
                background-color: rgb(107, 207, 24);
                border:none;
                color:rgb(73, 12, 71);
                font-size: small;
                padding:15px 25px;
                text-decoration:solid;
                margin: 2px 2px;
            }
        </style>
    </head>
    <body>
        <h1>Login</h1>
        <p>Enter your details</p>
        <form>
            <input type="text" name="email" id="email" maxlength="20" size="20"
required>
            <p>Register Number</p>
            <input type="text" name="regno" id="regno" maxlength="20" size="20"
required>
            <p>Password</p>
            <input type="Password" name="Password" id="Password" maxlength="20"
size="20" required><br><br>
            <input type="submit" value="signin"><hr>
            <small><u>Already have account?<a href="{ url_for('login') }">
<br></u>Login</a></small>
        </form>
    </body>
</html>

```

```

        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):

```
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)
```

## db.py

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

## Code(home.html):

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <title>Home page</title>

  </head>
  <body>
    <p style="font-size:500%"><center><b>Welcome to Home
Page</b></center></p>
  </body>
</html>
```

## Output:

**Welcome to Home Page**