**Assignment -2**

Flask

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| --- | --- |
| Assignment Date | 22 September 2022 |
| Student Name | Krishnaraj S |
| Student Roll Number | 111519205024 |
| Maximum Marks | 2 Marks |

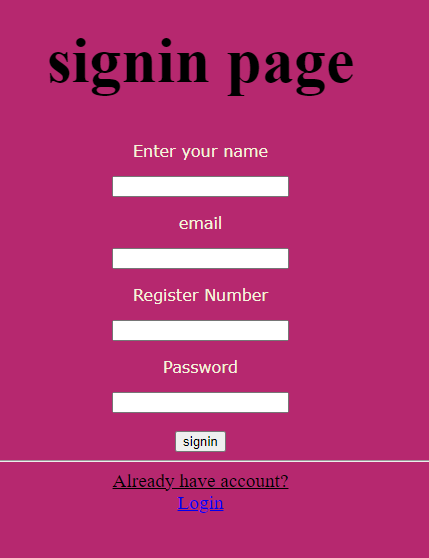
1) Create user table with user with email , username , roll\_number and password

-- 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:**



**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" sie="20" required>

            <p>Register Number</p>

            <input type="text" name="regno" id="regno" maxlength="20" sie="20" required>

            <p>Password</p>

            <input type="Password" name="Password" id="Password" maxlength="20" sie="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;

                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">

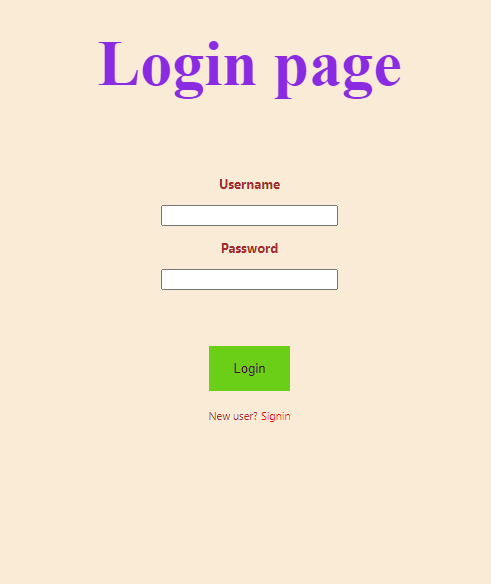
            <p><small>New user?  <a href="{{url for('signin') }}">Signin</a></small></p>

        </form>

    </body>

</html>

**Login Page:**

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**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 lag="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:**

