

Assignment -2

Flask

Assignment Date	22 September 2022
Student Name	KEERTHANA M
Student Roll Number	111519205021
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.

Signup page:

Signup page

Username

Email

Roll number

Password

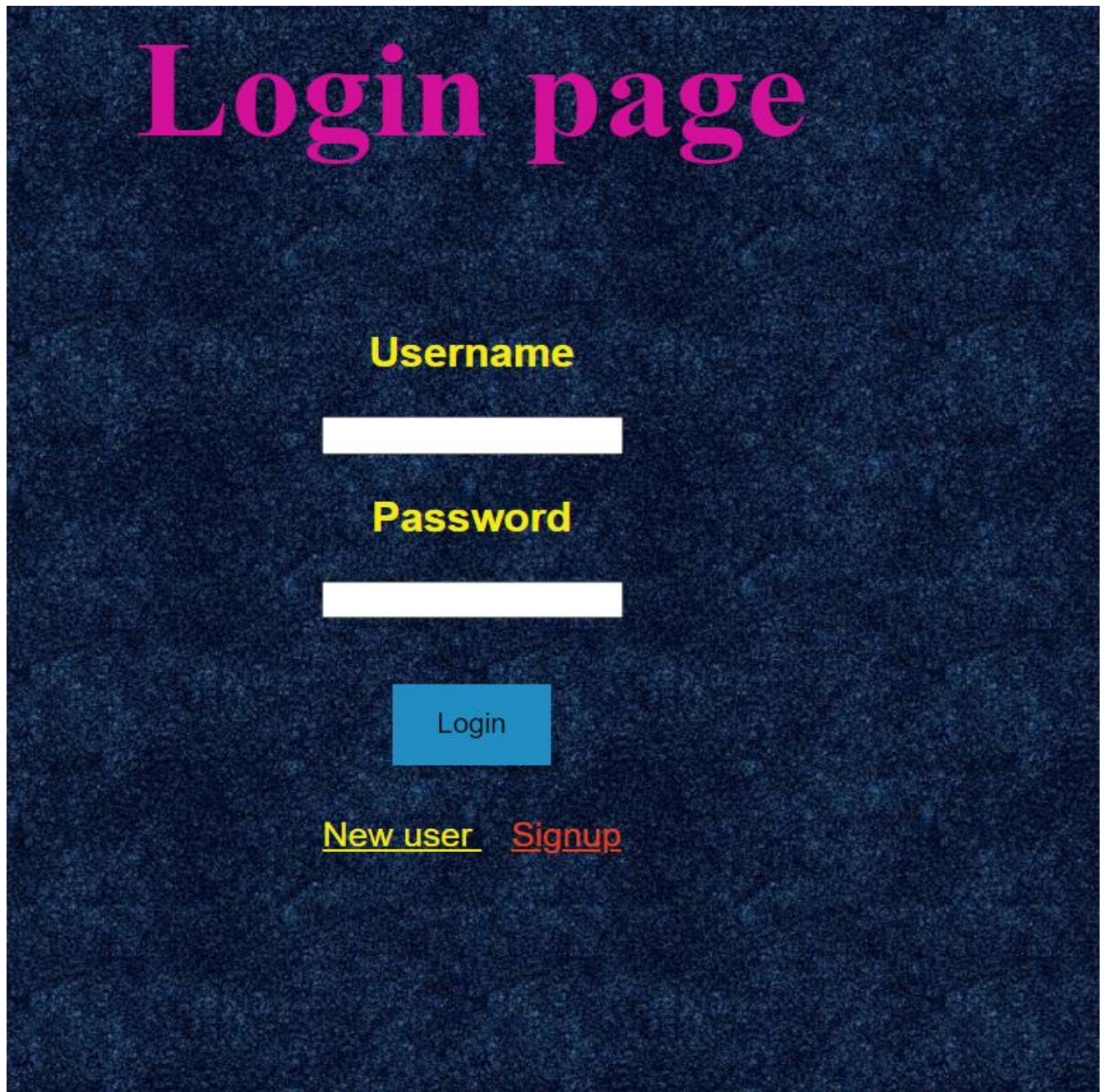
Signup

Already have an account
[Login](#)

CODE: (signup.html)

```
<!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>
  <style>
    h1{
      text-align: center;
      font-size: 8ch;
      color: #5e073f;
    }
    body{
      background-color: black;
      text-align: center;
      background-image: url("im.gif");
      background-position: center;
      background-repeat: no-repeat;
      background-size: cover;
    }
    p{
      color: rgb(26, 86, 8);
      font-size: x-large;
      font-family: 'Franklin Gothic Medium', 'Arial Narrow', Arial, sans-serif;
    }
    small{
      color: rgb(0, 0, 0);
      font-size: larger;
    }
    input[type=submit] {
      background-color: #970909;
      border: none;
      color: #fff;
      padding: 15px 10px;
      text-decoration: none;
      margin: 2px 2px;
      cursor: pointer;
    }
  </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>
```

Login Page: -



The image shows a login page with a dark blue, textured background. At the top, the words "Login page" are written in a large, pink, serif font. Below this, the word "Username" is written in a bold, yellow, sans-serif font, followed by a white rectangular input field. Below the input field, the word "Password" is written in a bold, yellow, sans-serif font, followed by another white rectangular input field. Below the password field, there is a blue rectangular button with the word "Login" in white, sans-serif font. At the bottom, the text "New user Signup" is displayed in a yellow, sans-serif font, where "New user" is underlined and "Signup" is also underlined.

Login page

Username

Password

Login

New user Signup

CODE: (login.html)

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Login</title>
  <style>
    h1{
      text-align: center;
      color: #c71585;
      font-size: 500%;
    }
    body{
      text-align: center;
    }
    body{
      background-image: url("image1.gif");
    }
    p{
      font-size: larger;
      font-family: Arial, Helvetica, sans-serif;
      font-size: x-large;
      color: #800080;
    }
    input[type=submit] {
      background-color: #228dc2;
      border: none;
      color: white;
      font-size: medium;
      padding: 15px 25px;
      text-decoration: none;
      margin: 2px 2px;
      cursor: pointer;
    }
    a:link {
      color: #4682b4;
      background-color: transparent;
      text-decoration: underline;
    }
  </style>

```

```
</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>
    <input type="submit" value="Login">
    <p><small><u>New user </u>&nbsp;&nbsp;&nbsp;&nbsp;<a href="{{ url_for('signup') }}">Signup</a></small></p>
  </form>

</body>

</html>
```

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 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

```
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:

Welcome to the home page

CODE: (homepage.html)

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Home page</title>
</head>
<body>
  <p>Welcome to the home page</p>
</body>
</html>
```