**Source Code**

**Register.html**

|  |
| --- |
| <html> |
|  | <head> |
|  | <meta name="viewport" content="width=device-width, initial-scale=1"> |
|  | <style> |
|  | { |
|  | padding:0; |
|  | margin:0; |
|  | font-family: sans-serif; |
|  | } |
|  | body{ |
|  | background: url(D:\project output\background1.jpg)no-repeat; |
|  | background-size: cover; |
|  | } |
|  | .registration-form{ |
|  | position:absolute; |
|  | top:50%; |
|  | left: 50%; |
|  | transform: translate(-50%, -50%); |
|  | width:400px; |
|  | } |
|  | .registration-form h1{ |
|  | font-size: 30px; |
|  | text-align: center; |
|  | text-transform: uppercase; |
|  | margin: 0 4px; |
|  | display:flex; |
|  | justify-content: center; |
|  | cursor: pointer; |
|  | border-radius: 20px; |
|  | color:blue; |
|  | text-shadow:0 0 15px blue,0 0 25px yellow; |
|  | animation: animate 1.5s linear infinite; |
|  |  |
|  | } |
|  | .registration-form p{ |
|  | font-size: 20px; |
|  | margin: 15px 0; |
|  | } |
|  | .registration-form input{ |
|  | font-size: 16px; |
|  | padding: 15px 10px; |
|  | width: 100%; |
|  | border: 0; |
|  | border-radius: 5px; |
|  | outline: none; |
|  | background: rgba( 255, 255, 255, 0.25 ); |
|  | box-shadow: 0 8px 32px 0 rgba( 31, 38, 135, 0.37 ); |
|  | backdrop-filter: blur( 4px ); |
|  | -webkit-backdrop-filter: blur( 4px ); |
|  | border-radius: 10px; |
|  | border: 1px solid rgba( 255, 255, 255, 0.18 ); |
|  | } |
|  | .registration-form button{ |
|  | font-size: 18px; |
|  | font-weight: bold; |
|  | margin: 20px 0; |
|  | padding: 10px 15px; |
|  | width: 50%; |
|  | border: 0; |
|  | border-radius: 5px; |
|  | background-color: #fff; |
|  | background: rgba( 255, 255, 255, 0.25 ); |
|  | box-shadow: 0 8px 32px 0 rgba( 31, 38, 135, 0.37 ); |
|  | backdrop-filter: blur( 4px ); |
|  | -webkit-backdrop-filter: blur( 4px ); |
|  | border-radius: 10px; |
|  | border: 1px solid rgba( 255, 255, 255, 0.18 ); |
|  | } |
|  | .registration-form button:hover{ |
|  | color: blue; |
|  | } |
|  | .alreadylogin{ |
|  | text-align: center; |
|  | font-size: 18px; |
|  | } |
|  | .alreadylogin h3{ |
|  | text-align: center; |
|  | font-size: 18px; |
|  | } |
|  | .alreadylogin a{ |
|  | font-size: 15px; |
|  | } |
|  | .alreadylogin a:hover{ |
|  | color: blue; |
|  | } |
|  | </style> |
|  | </head> |
|  | <body> |
|  | <body background="D:\project output\submit background.jpg"> |
|  | <div class="registration-form"> |
|  | <h1> |
|  | Registration Form |
|  | </h1> |
|  | <form action="login.html" method="post"> |
|  | <p> |
|  | Full name: |
|  | </p> |
|  | <input type="text" name="fullname" placeholder="Full name"> |
|  | <p> |
|  | User Name: |
|  | </p> |
|  | <input type="text" name="username" placeholder="User name"> |
|  | <p> |
|  | Email: |
|  | </p> |
|  | <input type="email" name="email" placeholder="Email"> |
|  | <p> |
|  | Password: |
|  | </p> |
|  | <input type="password" name="password" placeholder="Password"> |
|  | <p> |
|  | Confirm Password: |
|  | </p> |
|  | <input type="password" name="password" placeholder="Password"> |
|  | <br> |
|  | <button type="submit"> |
|  | Register |
|  | </button> |
|  | </form> |
|  | <br> |
|  | <div class="alreadylogin"> |
|  | <h3>if you already login </h3><a href="[login.html](file:///E:\login.html)">LOGIN HERE</a> |
|  | </div> |
|  | </div> |
|  |  |
|  | <div class="square"></div> |
|  |  |
|  | </body> |
|  | </html> |

**Login.html**

|  |
| --- |
| <html> |
|  | <head> |
|  | <meta name="viewport" content="width=device-width, initial-scale=1"> |
|  | <style> |
|  | \*{ |
|  | padding:0; |
|  | margin:0; |
|  | font-family: sans-serif; |
|  | } |
|  | body{ |
|  | background: url(D:\project output\background1.jpg)no-repeat; |
|  | background-size: cover; |
|  | } |
|  | .registration-form{ |
|  | position:absolute; |
|  | top:50%; |
|  | left: 50%; |
|  | transform: translate(-50%, -50%); |
|  | width:400px; |
|  | } |
|  | .registration-form h1{ |
|  | font-size: 30px; |
|  | text-align: center; |
|  | text-transform: uppercase; |
|  | margin: 0 4px; |
|  | display:flex; |
|  | justify-content: center; |
|  | cursor: pointer; |
|  | border-radius: 20px; |
|  | color:blue; |
|  | text-shadow:0 0 15px blue,0 0 25px yellow; |
|  | animation: animate 1.5s linear infinite; |
|  | } |
|  | .registration-form p{ |
|  | font-size: 20px; |
|  | margin: 15px 0; |
|  | } |
|  | .registration-form input{ |
|  | font-size: 16px; |
|  | padding: 15px 10px; |
|  | width: 100%; |
|  | border: 0; |
|  | border-radius: 5px; |
|  | outline: none; |
|  | background: rgba( 255, 255, 255, 0.25 ); |
|  | box-shadow: 0 8px 32px 0 rgba( 31, 38, 135, 0.37 ); |
|  | backdrop-filter: blur( 4px ); |
|  | -webkit-backdrop-filter: blur( 4px ); |
|  | border-radius: 10px; |
|  | border: 1px solid rgba( 255, 255, 255, 0.18 ); |
|  | } |
|  | .registration-form button{ |
|  | font-size: 18px; |
|  | font-weight: bold; |
|  | margin: 20px 0; |
|  | padding: 10px 15px; |
|  | width: 50%; |
|  | border: 0; |
|  | border-radius: 5px; |
|  | background-color: #fff; |
|  | background: rgba( 255, 255, 255, 0.25 ); |
|  | box-shadow: 0 8px 32px 0 rgba( 31, 38, 135, 0.37 ); |
|  | backdrop-filter: blur( 4px ); |
|  | -webkit-backdrop-filter: blur( 4px ); |
|  | border-radius: 10px; |
|  | border: 1px solid rgba( 255, 255, 255, 0.18 ); |
|  | } |
|  | .registration-form button:hover{ |
|  | color: blue; |
|  | } |
|  | .alreadylogin{ |
|  | text-align: center; |
|  | font-size: 18px; |
|  | } |
|  | .alreadylogin h3{ |
|  | text-align: center; |
|  | font-size: 15px; |
|  | } |
|  | .alreadylogin a{ |
|  | font-size: 15px; |
|  | } |
|  | .alreadylogin a:hover{ |
|  | color: blue; |
|  | } |
|  | <title> |
|  | Login page |
|  | </title> |
|  |  |
|  | </style> |
|  | </head> |
|  | <body> |
|  | <body background="D:\project output\submit background.jpg"> |
|  | <div class="registration-form"> |
|  | <h1> |
|  | Login |
|  | </h1> |
|  | <form action="uploadimage.html" method="post"> |
|  |  |
|  | <p> |
|  | Email: |
|  | </p> |
|  | <input type="email" name="email" placeholder="Email"> |
|  | <p> |
|  | Password: |
|  | </p> |
|  | <input type="password" name="password" placeholder="Password"> |
|  | <br> |
|  | <button type="submit">Login</button> |
|  |  |
|  | </form> |
|  | <br> |
|  | <div class="alreadylogin"> |
|  | <h3>if you don't register please click here </h3><a href="[register.html](file:///E:\register.html)">REGISTER HERE</a> |
|  | </div> |
|  | </div> |
|  | </div> |
|  |  |
|  | <div class="square"></div> |
|  |  |
|  | </body> </html> |
|  | **Uploadimage.html** |

|  |
| --- |
| <!DOCTYPE html> |
|  | <html lang="en"> |
|  |  |
|  | <head> |
|  |  |
|  | <title>Nutrition Assistant Application</title> |
|  |  |
|  | </head> |
|  | <!-- body --> |
|  |  |
|  | <body class="main-layout"> |
|  | <body background="D:\project output\submit background.jpg"> |
|  | <!-- loader --> |
|  |  |
|  | <!-- end loader --> |
|  | <!-- header --> |
|  | <header> |
|  | <p>Upload Image </p> |
|  | <p>Click on the "Choose File" button to upload a file:</p> |
|  |  |
|  | <form action="submit.html"> |
|  | <input type="file" id="myFile" name="filename"> |
|  | <input type="submit"> |
|  | <a href="[submit.html](file:///E:\submit.html)"> |
|  | </form> |
|  | <h3>Nutrients</h3> |
|  | <p>Nutrients are important to our body. It is very important to know the amount of nutrients that we consume. Exess intake may harm us. Less intake may also damage our body. It is very important to consume them in a limited manner. |
|  | </p> |
|  | </header> |
|  | </body> |
|  | </html>  Submit.html   |  |  | | --- | --- | | <html> | | |  | | <head> | | |  | | <title>Nutrition Facts</title> | | |  | | </head> | | |  | | <body> | | |  | | <body background="D:\project output\submit background.jpg"> | | |  | <p><b>PASTA SALAD </b></p> | | |  | <img align="middle" src="[D:\project output\Pasta Salad.jpg](file:///D:\project%20output\Pasta%20Salad.jpg)"width="250" height="250"> | | |  | <ol> | | |  | <li>Calorie-170</li> | | |  | <li>Carbs-31.0gm</li> | | |  | <li>Fat-1.5gm</li> | | |  | <li>Protein-6.0gm</li> | | |  | <li>Fiber-2.0gm</li> | | |  | <li>Calorie-170</li> | | |  | </ol> | | |  | <p><i> Eating the right foods make you makes you feel good from the inside out.</i></p> | | |  | <blink> THANK YOU!!!! VISIT AGAIN!!!! </blink> | | |  | </body> | | |  | </html>  App.py  from flask import Flask, render\_template, request, redirect, url\_for, session  import ibm\_db  import re  app = Flask(\_\_name\_\_)    app.secret\_key = 'a'  conn = ibm\_db.connect("DATABASE=bludb;HOSTNAME=125f9f61-9715-46f9-9399-c8177b21803b.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=30426;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=prr33336;PWD=HjUQ32viK8LI98UT  ",'','')  @app.route('/')  def homer():  return render\_template('home.html')  @app.route('/login',methods =['GET', 'POST'])  def login():  global userid  msg = ''      if request.method == 'POST' :  username = request.form['username']  password = request.form['password']  sql = "SELECT \* FROM users WHERE username =? AND password=?"  stmt = ibm\_db.prepare(conn, sql)  ibm\_db.bind\_param(stmt,1,username)  ibm\_db.bind\_param(stmt,2,password)  ibm\_db.execute(stmt)  account = ibm\_db.fetch\_assoc(stmt)  print (account)  if account:  session['loggedin'] = True  session['id'] = account['USERNAME']  userid= account['USERNAME']  session['username'] = account['USERNAME']  msg = 'Logged in successfully !'    msg = 'Logged in successfully !'  return render\_template('dashboard.html', msg = msg)  else:  msg = 'Incorrect username / password !'  return render\_template('login.html', msg = msg)      @app.route('/register', methods =['GET', 'POST'])  def registet():  msg = ''  if request.method == 'POST' :  username = request.form['username']  email = request.form['email']  password = request.form['password']  sql = "SELECT \* FROM users WHERE username =?"  stmt = ibm\_db.prepare(conn, sql)  ibm\_db.bind\_param(stmt,1,username)  ibm\_db.execute(stmt)  account = ibm\_db.fetch\_assoc(stmt)  print(account)  if account:  msg = 'Account already exists !'  elif not re.match(r'[^@]+@[^@]+\.[^@]+', email):  msg = 'Invalid email address !'  elif not re.match(r'[A-Za-z0-9]+', username):  msg = 'name must contain only characters and numbers !'  else:  insert\_sql = "INSERT INTO users VALUES (?, ?, ?)"  prep\_stmt = ibm\_db.prepare(conn, insert\_sql)  ibm\_db.bind\_param(prep\_stmt, 1, username)  ibm\_db.bind\_param(prep\_stmt, 2, email)  ibm\_db.bind\_param(prep\_stmt, 3, password)  ibm\_db.execute(prep\_stmt)  msg = 'You have successfully registered !'  elif request.method == 'POST':  msg = 'Please fill out the form !'  return render\_template('register.html', msg = msg)  @app.route('/logout')  def logout():  session.pop('loggedin', None)  session.pop('id', None)  session.pop('username', None)  return render\_template('home.html')  if \_\_name\_\_ == '\_\_main\_\_':  app.run(host='0.0.0.0') | | |

**Docker**

FROM Python 3.9.12

#Set up directories

RUN mkdir /application

WORKDIR /application

COPY requirements.txt.

# Copy python dependencies and install these RUN

RUN pip install -r requirements.txt

# Copy the rest of the applications sd

COPY . .

#Environment variables

ENV PYTHONUNBUFFERED 1

#EXPOSE port 8000 to allow communication to/from server

EXPOSE 8001

STOPSIGNAL SIGINT

ENTRYPOINT ["python"]

CMD ["app.py"]