App.py file

from flask import Flask, render\_template, request, redirect, url\_for, session

from database import create\_user, verify\_user, save\_result, get\_user\_results

app = Flask(\_\_name\_\_)

app.secret\_key = "puja\_secret\_key"

questions = [

    "How often do you feel interested or motivated to do your daily activities?",

    "How do you feel when you wake up in the morning?",

    "How often do you feel hopeful about your future?",

    "How is your sleep pattern recently?",

    "How do you usually feel about yourself?",

    "How do you react to small problems or stress?",

    "How often do you feel pleasure or joy in things you used to enjoy?",

    "How is your energy level during the day?",

    "How often do you feel lonely or disconnected from others?",

    "How often do you think life isn’t worth living?"

]

options = [

    ["I enjoy and look forward to them.", "Sometimes I feel less motivated but manage to do them.",

     "I often find it hard to start or complete tasks.", "I rarely feel like doing anything at all."],

    ["Refreshed and ready to start the day.", "A bit tired but okay to continue.",

     "Drained or unmotivated most mornings.", "I don’t feel like getting out of bed at all."],

    ["Most of the time I feel positive.", "Occasionally I feel uncertain.",

     "I often feel my future looks bleak.", "I have lost hope completely."],

    ["I sleep well and feel rested.", "Sometimes I have trouble falling asleep.",

     "I sleep too much or too little regularly.", "I struggle to sleep most nights."],

    ["I feel confident and content.", "I sometimes doubt myself.",

     "I often feel unworthy or like a failure.", "I constantly criticize myself or feel useless."],

    ["I handle them calmly.", "I get a little upset but move on.",

     "I feel easily overwhelmed.", "Even small issues make me break down."],

    ["Almost always.", "Occasionally.", "Rarely.", "Never."],

    ["Consistently good.", "Sometimes low.", "Usually tired or fatigued.", "Extremely low most of the time."],

    ["Rarely, I feel supported.", "Sometimes I feel alone.", "Often I feel isolated.", "Almost always I feel disconnected."],

    ["Never.", "Occasionally.", "Quite often.", "Very frequently."]

]

tips\_dict = {

    "Minimal depression": ["Go for regular walks and light exercise.",

                           "Spend time with friends and family; talk about how you feel.",

                           "Keep a small daily routine (sleep, meals, short activities)."],

    "Mild depression": ["Try gentle daily exercise (walk, yoga), keep routines.",

                        "Talk to trusted friends or family about how you feel.",

                        "Try journaling your thoughts and small achievable goals."],

    "Moderate depression": ["Consider speaking with a counselor or mental health professional.",

                            "Maintain social contact; share your feelings with someone you trust.",

                            "Try structured routine: sleep hygiene, balanced meals, light activity."],

    "Severe depression": ["Seek professional help from a psychologist/psychiatrist as soon as possible.",

                          "If you feel at immediate risk, contact local emergency services or a crisis line.",

                          "Spend time with supportive family/friends and avoid isolation."]

}

# ---------- ROUTES ----------

@app.route("/")

def home():

    if "username" in session:

        return redirect(url\_for("dashboard"))

    return redirect(url\_for("login"))

@app.route("/login", methods=["GET", "POST"])

def login():

    if request.method == "POST":

        uname = request.form["username"]

        pwd = request.form["password"]

        if verify\_user(uname, pwd):

            session["username"] = uname

            return redirect(url\_for("dashboard"))

        else:

            return render\_template("login.html", error="Invalid credentials")

    return render\_template("login.html")

@app.route("/signup", methods=["GET", "POST"])

def signup():

    if request.method == "POST":

        uname = request.form["username"]

        pwd = request.form["password"]

        if create\_user(uname, pwd):

            return redirect(url\_for("login"))

        else:

            return render\_template("signup.html", error="Username already exists")

    return render\_template("signup.html")

@app.route("/dashboard")

def dashboard():

    if "username" not in session:

        return redirect(url\_for("login"))

    return render\_template("dashboard.html", username=session["username"])

@app.route("/questionnaire", methods=["GET", "POST"])

def questionnaire():

    if "username" not in session:

        return redirect(url\_for("login"))

    if request.method == "POST":

        score = 0

        # Ensure all questions are answered

        for i in range(10):

            answer\_str = request.form.get(f"q{i}")

            if answer\_str is None:

                return render\_template(

                    "questionnaire.html",

                    questions=questions,

                    options=options,

                    error="Please answer all questions"

                )

            score += int(answer\_str)

        print("User answers:", [request.form.get(f"q{i}") for i in range(10)])

        print("Total score:", score)

        if score <= 9:

            level = "Minimal depression"

        elif score <= 18:

            level = "Mild depression"

        elif score <= 26:

            level = "Moderate depression"

        else:

            level = "Severe depression

        save\_result(session["username"], score, level)

      return render\_template("result.html", score=score, level=level, tips=tips\_dict[level])

    return render\_template("questionnaire.html", questions=questions, options=options)

@app.route("/history")

def history():

    if "username" not in session:

        return redirect(url\_for("login"))

    rows = get\_user\_results(session["username"], limit=20)

    return render\_template("history.html", rows=rows)

@app.route("/logout")

def logout():

    session.pop("username", None)

    return redirect(url\_for("login"))

if \_\_name\_\_ == "\_\_main\_\_":

    app.run(debug=True)

database.py

import sqlite3

import hashlib

from datetime import datetime

conn = sqlite3.connect("users.db", check\_same\_thread=False)

cur = conn.cursor()

cur.execute("""

CREATE TABLE IF NOT EXISTS users (

    username TEXT PRIMARY KEY,

    password TEXT

)

""")

cur.execute("""

CREATE TABLE IF NOT EXISTS results (

    id INTEGER PRIMARY KEY AUTOINCREMENT,

    username TEXT,

    score INTEGER,

    level TEXT,

    timestamp TEXT

)

""")

conn.commit()

def hash\_password(password):

    return hashlib.sha256(password.encode()).hexdigest()

def create\_user(username, password):

    try:

        cur.execute("INSERT INTO users VALUES (?, ?)", (username, hash\_password(password)))

        conn.commit()

        return True

    except:

        return False

def verify\_user(username, password):

    cur.execute("SELECT \* FROM users WHERE username=? AND password=?", (username, hash\_password(password)))

    return cur.fetchone() is not None

def save\_result(username, score, level):

    timestamp = datetime.now().strftime("%Y-%m-%d %H:%M:%S")

    cur.execute("INSERT INTO results (username, score, level, timestamp) VALUES (?, ?, ?, ?)",

                (username, score, level, timestamp))

    conn.commit()

def get\_user\_results(username, limit=10):

    cur.execute("SELECT score, level, timestamp FROM results WHERE username=? ORDER BY id DESC LIMIT ?",

                (username, limit))

    return cur.fetchall()

script.js

// 🌈 Dynamic background gradients

const gradients = [

    ['#89f7fe','#66a6ff'],

    ['#fbc2eb','#a6c1ee'],

    ['#ff9a9e','#fad0c4'],

    ['#a1c4fd','#c2e9fb'],

    ['#fbc2eb','#f6d365']

];

let currentGradient = 0;

function changeBackground() {

    document.body.style.background = `linear-gradient(135deg, ${gradients[currentGradient][0]}, ${gradients[currentGradient][1]})`;

    currentGradient = (currentGradient + 1) % gradients.length;

}

setInterval(changeBackground, 8000);

// 🖱 Hover effects

const container = document.querySelector('.container');

if(container){

    container.addEventListener('mouseover', ()=>{ container.style.transform='scale(1.02)'; });

    container.addEventListener('mouseout', ()=>{ container.style.transform='scale(1)'; });

}

document.querySelectorAll('img').forEach(img=>{

    img.addEventListener('mouseover', ()=>{ img.style.transform='scale(1.05)'; img.style.transition='0.3s'; });

    img.addEventListener('mouseout', ()=>{ img.style.transform='scale(1)'; });

});

// 🧠 One question at a time

document.addEventListener("DOMContentLoaded", ()=>{

    const questions = document.querySelectorAll('.question-box');

    const backBtn = document.getElementById('backBtn');

    const nextBtn = document.getElementById('nextBtn');

    const submitBtn = document.getElementById('submitBtn');

    if(questions.length === 0) return;

    let currentQ = 0;

    function showQuestion(index){

        questions.forEach((q,i)=> q.style.display = i===index ? 'block' : 'none');

        backBtn.style.display = index===0 ? 'none' : 'inline-block';

        nextBtn.style.display = index===questions.length-1 ? 'none' : 'inline-block';

        submitBtn.style.display = index===questions.length-1 ? 'inline-block' : 'none';

    }

    showQuestion(currentQ);

    nextBtn.addEventListener('click', ()=>{

        const selected = questions[currentQ].querySelector('input[type=radio]:checked');

        if(!selected){ alert("Please select an option"); return; }

        currentQ++;

        showQuestion(currentQ);

    });

    backBtn.addEventListener('click', ()=>{

        currentQ--;

        showQuestion(currentQ);

    });

    // Ensure the last question is selected before submitting

    submitBtn.addEventListener('click', (e)=>{

        const selected = questions[currentQ].querySelector('input[type=radio]:checked');

        if(!selected){ e.preventDefault(); alert("Please select an option"); }

    });

});

Style.css

\* {box-sizing:border-box; margin:0; padding:0; font-family:'Segoe UI',sans-serif;}

body {min-height:100vh; display:flex; justify-content:center; align-items:center; transition:background 1s ease-in-out;}

.container {background: rgba(255,255,255,0.95); padding:30px 40px; border-radius:20px; box-shadow:0 10px 25px rgba(0,0,0,0.2); max-width:650px; width:90%; animation: fadeIn 1s ease-in-out; transition: transform 0.3s;}

h2 {text-align:center; color:#333; margin-bottom:20px; animation: slideDown 1s ease-out; font-size: 2rem;}

input[type=text], input[type=password], select {width:100%; padding:10px 12px; margin:8px 0 15px 0; border:2px solid #66B2FF; border-radius:12px; outline:none; transition:0.3s;}

input[type=text]:focus, input[type=password]:focus, select:focus {border-color:#3399FF; box-shadow:0 0 8px rgba(51,153,255,0.4);}

button {width:100%; padding:12px; border:none; border-radius:12px; background: linear-gradient(to right,#66B2FF,#3399FF); color:white; font-size:16px; cursor:pointer; margin-top:10px; transition:0.4s;}

button:hover {background: linear-gradient(to right,#3399FF,#66B2FF); transform:scale(1.05);}

a {color:#3399FF; text-decoration:none; font-weight:bold;} a:hover{text-decoration:underline;}

.error {color:#FF4C4C; text-align:center; margin-bottom:10px;}

.radio-group {margin:10px 0 15px 0;}

.radio-group label {display:block; margin-bottom:8px; padding:6px 10px; border-radius:8px; transition:0.3s; cursor:pointer;}

.radio-group input[type=radio]{margin-right:10px;}

.radio-group label:hover{background: rgba(102,178,255,0.2);}

ul{list-style:none; padding-left:0;}

li{background: rgba(102,178,255,0.15); padding:10px 12px; margin:8px 0; border-radius:10px; transition:0.3s;}

li:hover{background: rgba(102,178,255,0.3);}

img {animation: floatIn 1s ease-in-out; border-radius:12px; max-width:100%; height:auto;}

.container ul li a {display:block; padding:12px; background:linear-gradient(to right,#66B2FF,#3399FF); color:white; border-radius:12px; text-align:center; transition:0.4s;}

.container ul li a:hover{background:linear-gradient(to right,#3399FF,#66B2FF); transform:scale(1.03);}

/\* Responsive \*/

@media(max-width:768px){

    .container {padding:20px;}

    h2 {font-size:1.5rem;}

    button {font-size:14px;}

}

/\* Animations \*/

@keyframes fadeIn{0%{opacity:0;transform:translateY(-20px);}100%{opacity:1;transform:translateY(0);}}

@keyframes slideDown{0%{opacity:0;transform:translateY(-50px);}100%{opacity:1;transform:translateY(0);}}

@keyframes floatIn{0%{opacity:0;transform:translateY(-20px);}100%{opacity:1;transform:translateY(0);}}

/\* Add these styles to style.css \*/

.radio-group label {

    display: block;

    background-color: #f0f8ff;

    border: 2px solid #66b2ff;

    border-radius: 12px;

    padding: 10px;

    margin: 8px 0;

    transition: background-color 0.3s, transform 0.2s;

    cursor: pointer;

}

.radio-group label:hover {

    background-color: #e0f7fa;

    transform: scale(1.02);

}

.navigation-buttons {

    display: flex;

    justify-content: space-between;

    margin-top: 20px;

}

.navigation-buttons button {

    padding: 10px 20px;

    border: none;

    border-radius: 8px;

    background-color: #66b2ff;

    color: white;

    cursor: pointer;

    transition: background-color 0.3s;

}

.navigation-buttons button:hover {

    background-color: #3399ff;

template folder

database.html

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Dashboard | Depression Analyzer</title>

    <link rel="stylesheet" href="{{ url\_for('static', filename='style.css') }}">

</head>

<body>

<div class="container">

    <h2>Welcome, {{ username }}!</h2>

    <ul>

        <li><a href="{{ url\_for('questionnaire') }}">Take Questionnaire</a></li>

        <li><a href="{{ url\_for('history') }}">View Past Results</a></li>

        <li><a href="{{ url\_for('logout') }}">Logout</a></li>

    </ul>

</div>

<script src="{{ url\_for('static', filename='script.js') }}"></script>

</body>

</html>

History.html

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>History | Depression Analyzer</title>

    <link rel="stylesheet" href="{{ url\_for('static', filename='style.css') }}">

</head>

<body>

<div class="container">

    <h2>Past Results</h2>

    {% if rows %}

        <ul>

        {% for score, level, ts in rows %}

            <li>{{ ts }} — Score: {{ score }} — {{ level }}</li>

        {% endfor %}

        </ul>

    {% else %}

        <p>No previous results found.</p>

    {% endif %}

    <a href="{{ url\_for('dashboard') }}"><button>Back to Dashboard</button></a>

</div>

<script src="{{ url\_for('static', filename='script.js') }}"></script>

</body>

</html>

Login.html

DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Login | Depression Analyzer</title>

    <link rel="stylesheet" href="{{ url\_for('static', filename='style.css') }}">

</head>

<body>

<div class="container">

    <h3>Welcome to Mental Health Analyzer💫</h3>

    {% if error %}

        <p class="error">{{ error }}</p>

    {% endif %}

    <form method="POST">

        <input type="text" name="username" placeholder="Username" required>

        <input type="password" name="password" placeholder="Password" required>

        <button type="submit">Login</button>

    </form>

    <p style="margin-top:10px;">Don't have an account?

        <a href="{{ url\_for('signup') }}">Sign Up</a>

    </p>

</div>

<script src="{{ url\_for('static', filename='script.js') }}"></script>

</body>

</html>

Questionarie.html

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Depression Questionnaire</title>

    <link rel="stylesheet" href="{{ url\_for('static', filename='style.css') }}">

    <script defer src="{{ url\_for('static', filename='script.js') }}"></script>

</head>

<body>

<div class="container">

    <h2>Depression Questionnaire</h2>

    <form method="POST" class="questionnaire-form">

        {% for i in range(questions|length) %}

        <div class="question-box">

            <p>{{ i+1 }}. {{ questions[i] }}</p>

            <div class="radio-group">

                {% for j in range(options[i]|length) %}

                <label>

                    <input type="radio" name="q{{ i }}" value="{{ j }}" required> {{ options[i][j] }}

                </label>

                {% endfor %}

            </div>

        </div>

        {% endfor %}

        <div class="nav-buttons">

            <button type="button" id="backBtn">Back</button>

            <button type="button" id="nextBtn">Next</button>

            <button type="submit" id="submitBtn">Submit</button>

        </div>

    </form>

</div>

</body>

</html>

Result.html

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Result | Depression Analyzer</title>

    <link rel="stylesheet" href="{{ url\_for('static', filename='style.css') }}">

</head>

<body>

<div class="container">

    <img src="{{ url\_for('static', filename='images/happy2.jpg') }}" alt="Stay Positive!" style="width:100%; border-radius:15px; margin-bottom:20px;">

    <h2>Result</h2>

    <p><strong>Depression Level:</strong> {{ level }}</p>

    <p><strong>Score:</strong> {{ score }}/30</p>

    <h3>Suggested Tips:</h3>

    <ul>

        {% for tip in tips %}

            <li>{{ tip }}</li>

        {% endfor %}

    </ul>

    <p style="color:red;">If you feel at risk, seek professional help immediately.</p>

    <a href="{{ url\_for('dashboard') }}"><button>Back to Dashboard</button></a>

    <a href="{{ url\_for('questionnaire') }}"><button>Retake Questionnaire</button></a>

</div>

<script src="{{ url\_for('static', filename='script.js') }}"></script>

</body>

</html>

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 | Depression Analyzer</title>

    <link rel="stylesheet" href="{{ url\_for('static', filename='style.css') }}">

</head>

<body>

<div class="container">

    <img src="{{ url\_for('static', filename='images/mood\_banner.jpg') }}" alt="Happy Mood" style="width:100%; border-radius:15px; margin-bottom:20px;">

    <h2>Create Your Account 🌞</h2>

    {% if error %}

        <p class="error">{{ error }}</p>

    {% endif %}

    <form method="POST">

        <input type="text" name="username" placeholder="Choose a Username" required>

        <input type="password" name="password" placeholder="Create a Password" required>

        <button type="submit">Sign Up</button>

    </form>

    <p style="margin-top:10px;">Already have an account?

        <a href="{{ url\_for('login') }}">Login</a>

    </p>

</div>

<script src="{{ url\_for('static', filename='script.js') }}"></script>

</body>

</html>