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from flask import Flask, render_template, request, redirect, url_for
from flask_sqlalchemy import SQLAlchemy

app = Flask(__name__)
app.config['SQLALCHEMY_DATABASE_URI'] = 'sqlite:///database.db'
app.config['SECRET_KEY'] = 'your-secret-key'
db = SQLAlchemy(app)

# ---------------------- Models ----------------------
class Student(db.Model):
    id = db.Column(db.Integer, primary_key=True)
    name = db.Column(db.String(50), nullable=False)
    level = db.Column(db.String(20), default='Beginner')
    score = db.Column(db.Integer, default=0)

class Quiz(db.Model):
    id = db.Column(db.Integer, primary_key=True)
    question = db.Column(db.String(200), nullable=False)
    answer = db.Column(db.String(50), nullable=False)

# ---------------------- Routes ----------------------
@app.route('/')
def index():
    students = Student.query.all()
    return render_template('index.html', students=students)

@app.route('/student/<int:id>', methods=['GET', 'POST'])
def student(id):
    student = Student.query.get_or_404(id)
    quizzes = Quiz.query.all()
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    if request.method == 'POST':
        student.score = 0
        for quiz in quizzes:
            ans = request.form.get(f'quiz_{quiz.id}')
            if ans and ans.lower() == quiz.answer.lower():
                student.score += 1
        db.session.commit()
        return redirect(url_for('student', id=id))
    return render_template('student.html', student=student, quizzes=quizzes)

@app.route('/teacher')
def teacher():
    students = Student.query.all()
    return render_template('teacher.html', students=students)

@app.route('/add_student', methods=['POST'])
def add_student():
    name = request.form.get('name')
    if name:
        new_student = Student(name=name)
        db.session.add(new_student)
        db.session.commit()
    return redirect(url_for('index'))

@app.route('/add_quiz', methods=['POST'])
def add_quiz():
    question = request.form.get('question')
    answer = request.form.get('answer')
    if question and answer:
        new_quiz = Quiz(question=question, answer=answer)
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        db.session.add(new_quiz)
        db.session.commit()
    return redirect(url_for('teacher'))


# ---------------------- Run App ----------------------
if __name__ == '__main__':
    db.create_all()  # create database tables
    # Add sample quizzes if empty
    if Quiz.query.count() == 0:
        sample_quizzes = [
            Quiz(question="What is 2 + 2?", answer="4"),
            Quiz(question="What is the capital of India?", answer="Delhi"),
            Quiz(question="What color do you get by mixing red and white?", answer="Pink")
        ]
        db.session.add_all(sample_quizzes)
        db.session.commit()
    app.run(debug=True)
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