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import requests
from bs4 import BeautifulSoup
import sqlite3

def scrape_hadiths(url):
    response = requests.get(url)
    soup = BeautifulSoup(response.content, "html.parser")

    hadiths = []

    for hadith in soup.find_all("div", class_="actualHadithContainer"):
        hadith_text = hadith.find("div", class_="text_details").get_text().strip()
        hadiths.append(hadith_text)

    return hadiths

pillar_keywords = {
    "Shahada": ["faith", "testimony", "witness", "belief"],
    "Salat": ["prayer", "friday", "worship", "ritual"],
    "Zakat": ["charity", "almsgiving", "poor"],
    "Sawm": ["fasting", "Ramadan", "abstain"],
    "Hajj": ["pilgrimage", "Mecca", "Kaaba", "Hajj", "Umrah"]
}

# Connect to SQLite database
conn = sqlite3.connect('hadith_database.db')
cursor = conn.cursor()

# Create a table to store categorized hadiths
cursor.execute('''
CREATE TABLE IF NOT EXISTS hadiths (
    id INTEGER PRIMARY KEY,
    collection_name TEXT,
    pillar TEXT,
    hadith_text TEXT
)
''')

hadith_collections = [
    {"collection_name": "Abu Dawood", "url": "https://sunnah.com/abudawud/2"},
    {"collection_name": "Sahih Muslim", "url": "https://sunnah.com/muslim/12"},
    {"collection_name": "Sahih al-Bukhari", "url": "https://sunnah.com/bukhari/25"},
    {"collection_name": "Sahih al-Bukhari", "url": "https://sunnah.com/bukhari/30"},
    {"collection_name": "Sunan at-Tirmidhi", "url": "https://sunnah.com/tirmidhi/7"}
]

for collection in hadith_collections:
    collection_name = collection["collection_name"]
    url = collection["url"]
    hadiths = scrape_hadiths(url)
    for hadith in hadiths:
        hadith_text_lower = hadith.lower()
        pillar = None
        for pillar_name, keywords in pillar_keywords.items():
            if any(keyword in hadith_text_lower for keyword in keywords):
                pillar = pillar_name
                break

        cursor.execute('''
INSERT INTO hadiths (collection_name, pillar, hadith_text)
VALUES (?, ?, ?)
''', (collection_name, pillar, hadith))

    conn.commit()
    print(f"Hadiths from {collection_name} categorized and stored successfully.\n")

# Close the database connection
conn.close()

Hadiths from Abu Dawood categorized and stored successfully.

Hadiths from Sahih Muslim categorized and stored successfully.

Hadiths from Sahih al-Bukhari categorized and stored successfully.

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Hadiths from Sahih al-Bukhari categorized and stored successfully.

Hadiths from Sunan at-Tirmidhi categorized and stored successfully.

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