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from flask import Flask, request, jsonify
import requests
from bs4 import BeautifulSoup

app = Flask(__name__)

CDP_DOCS = {
    "segment": "https://segment.com/docs/",
    "mparticle": "https://docs.mparticle.com/",
    "lytics": "https://docs.lytics.com/",
    "zeotap": "https://docs.zeotap.com/home/en-us/"
}

def fetch_cdp_info(question):
    best_match = None
    best_match_score = 0
    for cdp, url in CDP_DOCS.items():
        if cdp in question.lower():
            try:
                response = requests.get(url, timeout=5)
                response.raise_for_status()
                soup = BeautifulSoup(response.text, "html.parser")
                paragraphs = [p.text for p in soup.find_all("p")]
                best_match = max(
                    paragraphs,
                    key=lambda p: sum(word in p.lower() for word in
question.lower().split()),
                    default=None
                )
            except requests.exceptions.RequestException as e:
                return f"Error fetching data: {str(e)}. Please check {url} manually."
            if best_match:
                return best_match
    else:
        return f"You can find more information here: {url}"
    return "Sorry, I couldn't find an answer. Try rephrasing your question."

@app.route("/ask", methods=["POST"])
def ask():
    data = request.get_json()
    question = data.get("question", "").strip()
    if not question:
        return jsonify({"answer": "Please ask a valid question.", "source": "None"})
    answer = fetch_cdp_info(question)
    matched_cdp = next((cdp for cdp in CDP_DOCS.keys() if cdp in question.lower()),
"Unknown")
    return jsonify({"answer": answer, "source": CDP_DOCS.get(matched_cdp, "Unknown")})

if __name__ == "__main__":
    app.run(debug=True)

```