from flask import Flask, jsonify, request

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

# Example data: a list of butterfly species

butterflies = [

{

"id": 1,

"name": "Monarch",

"scientific\_name": "Danaus plexippus",

"description": "Known for its long migrations and striking orange-black coloration."

},

{

"id": 2,

"name": "Blue Morpho",

"scientific\_name": "Morpho menelaus",

"description": "Famous for its vivid blue wings and found in rainforests of South America."

},

{

"id": 3,

"name": "Swallowtail",

"scientific\_name": "Papilio machaon",

"description": "Recognized by its large size and tail-like extensions on the hindwings."

}

]

@app.route('/')

def home():

return "Welcome to Enchanted Wings: Marvels of Butterfly Species API!"

@app.route('/butterflies', methods=['GET'])

def get\_butterflies():

return jsonify(butterflies)

@app.route('/butterflies/<int:species\_id>', methods=['GET'])

def get\_butterfly(species\_id):

butterfly = next((b for b in butterflies if b['id'] == species\_id), None)

if butterfly:

return jsonify(butterfly)

else:

return jsonify({"error": "Species not found"}), 404

@app.route('/butterflies', methods=['POST'])

def add\_butterfly():

data = request.json

new\_id = max(b['id'] for b in butterflies) + 1 if butterflies else 1

butterfly = {

"id": new\_id,

"name": data.get("name"),

"scientific\_name": data.get("scientific\_name"),

"description": data.get("description")

}

butterflies.append(butterfly)

return jsonify(butterfly), 201

if \_\_name\_\_ == '\_\_main\_\_':

app.run(debug=True)