from flask import Flask, request, jsonify

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

# Sample student data

students = [

{"id": 1, "name": "John Doe", "total\_marks": 85},

{"id": 2, "name": "Jane Smith", "total\_marks": 92},

# Add more student data...

]

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

def get\_students():

page = int(request.args.get("page", 1))

page\_size = int(request.args.get("page\_size", 10))

# Calculate start and end indices for pagination

start = (page - 1) \* page\_size

end = start + page\_size

# Retrieve paginated student data

paginated\_students = students[start:end]

return jsonify(paginated\_students)

@app.route("/students/filter", methods=["POST"])

def filter\_students():

filter\_criteria = request.json # Assuming the UI sends the filter criteria as JSON

# Apply server-side filtering based on filter criteria

filtered\_students = []

for student in students:

# Apply filter conditions based on the filter criteria

if filter\_criteria.get("name") and filter\_criteria["name"] != student["name"]:

continue

if filter\_criteria.get("total\_marks") and filter\_criteria["total\_marks"] != student["total\_marks"]:

continue

# If the student satisfies the filter conditions, add them to the filtered list

filtered\_students.append(student)

return jsonify(filtered\_students)

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

app.run()