const express = require('express');

const axios = require('axios');

const app = express();

const PORT = process.env.PORT || 3000;

// Mock third-party services

const mockNumberService = (type) => {

const services = {

'e': [2, 4, 6, 8, 10],

'f': [0, 1, 1, 2, 3],

'p': [2, 3, 5, 7, 11],

'r': Array.from({ length: 5 }, () => Math.floor(Math.random() \* 100))

};

return services[type] || [];

};

// Utility function to calculate average

const calculateAverage = (numbers) => {

const sum = numbers.reduce((acc, num) => acc + num, 0);

return sum / numbers.length;

};

// Endpoint to fetch and calculate the average of numbers

app.get('/test/:type', async (req, res) => {

const { type } = req.params;

try {

// Fetch numbers from mock third-party service

const numbers = mockNumberService(type);

if (numbers.length === 0) {

return res.status(400).json({ error: 'Invalid type parameter' });

}

const average = calculateAverage(numbers);

return res.json({ numbers, average });

} catch (error) {

return res.status(500).json({ error: 'An error occurred while processing your request' });

}

});

app.listen(PORT, () => {

console.log(`Server is running on port ${PORT}`);

});



