Developer Take Home Test

The Problem

You are tasked with building a simple application that exposes an endpoint to process cURL requests by extracting data from provided PDF files, running a few calculations and returning the calculated information. The PDF file is stored in a publicly accessible Amazon S3 bucket, and the cURL request will contain the file URL in its payload.

Context

Turo is an auto rental platform where people can rent vehicles from hosts. The host has trip receipts from their bookings and wants to understand the average trip price they have been charging for the month of October as well as how many days their vehicle was rented for.

Requirements

Input:

- Your application should be capable of receiving a cURL request.
- The cURL request payload will include a list of URLs of PDF files stored in an publicly accessible manner.
- Below is a sample of the requests the endpoint should be able to handle:

```
Unset
curl -X POST -H "Content-Type: application/json" -d '{"file_urls":
["https://your-s3-bucket-url/file1.pdf",
"https://your-s3-bucket-url/file2.pdf"]}'
https://your-api-endpoint.vercel.app/calculate
```

Processing:

- Iterate through each provided file URLs see Exhibit 2 for a list of URLs.
- For each file, extract relevant data, including start date and time, the end date and time, and the trip price (see Exhibit 1 for a labeled anatomy).
- Calculate the total number of days booked during the month of October across all the trip receipts. Name this result "Days Booked".
- Calculate what percentage of the month the vehicle was booked by taking the "Days Booked" and dividing it by the number of days in October. Name this result "Occupancy Rate".
- Calculate the total trip price across all bookings for the month of October and divide it by the number of "Days Booked". Name this result "Average Daily Rate".

Output:

- Return the extracted data in a structured JSON packet.
- Below is a sample of what the structure might look like.

```
Unset
{
"Days Booked" : "11",
"Occupancy Rate" : "35.4%",
"Average Daily Rate": "$43.44"
}
```

Error Handling:

• Implement proper error handling for cases where the PDF file is not accessible or the extraction process fails.

Deployment

 Please deploy your application on Vercel and set the URL for your endpoint as https://{{yourname}}_greentest_1.vercel.app/testendpoint

Expected Results:

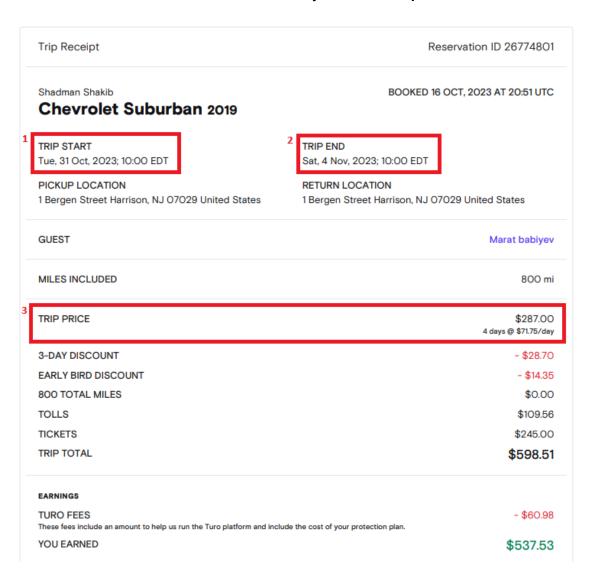
- When your application receives a cURL request, it should successfully extract the required transaction data from the provided PDF file.
- It should be able to calculate the correct values for the required outputs.
- Proper error messages should be returned in case of any issues with the PDF file or extraction process.

Notes

- 1. You are free to use any programming language or framework of your choice.
- 2. Ensure that your code is well-documented and includes instructions on how to run and test the application.
- 3. Consider scalability and maintainability when designing your solution.
- 4. Feel free to include additional features or optimizations that you think would enhance the functionality of the application.

If you have any questions, please feel free to reach out to us by email at developer.tests@tealandmandy.com.

Exhibit 1: Anatomy of Turo Receipts



- 1. The trip start date and time
- 2. The trip end date and time
- 3. The trip price

Exhibit 2: File URLs for Testing

Unset

```
https://testdocs11.s3.us-east-2.amazonaws.com/26774801.pdf \\ https://testdocs11.s3.us-east-2.amazonaws.com/26899435.pdf \\ https://testdocs11.s3.us-east-2.amazonaws.com/26926135.pdf \\ https://testdocs11.s3.us-east-2.amazonaws.com/27082060.pdf \\ https://testdocs11.s3.us-east-2.amazonaws.com/27270383.pdf \\ https://testdocs11.s3.us-east-2.amazonaws.com/27401957.pdf \\ https://testdocs11.s3.us-east-2.amazonaws.com/27486932.pdf \\ https://testdocs11.s3.us-east-2
```