Plan for Receipt Processor Challenge

Language: Go

Framework: Gin, although not feature-rich as Echo, but I believe it is enough for this specific task. Moreover, Gin is lightweight but still handle http request very well. Since the project focused on REST API, this will be the best choice.

Two Main Functions for this project:

1. POST:

Input: a json receipt, Output: a string ID for the receipt

Submit a receipt -> validate the receipt(whether in the correct format) -> hash the receipt base on the content to know whether it is already calculated(no need to recalculate if same content) -> calculate the points for the receipt base on the provided rules -> save the ID, points as key value pair to a map -> output the id

1. GET:

Input: a string ID for the receipt, Output: points for the receipt

Submit a receipt ID -> check whether the ID is a key in the map -> output the points

Start my application:

1. Have go installed
2. Run the command “go run main.go”
3. After starting the application, server will start on <http://localhost:8000>.
4. If go on the server, will see all the commands: A screenshot of a computer program

   Description automatically generated
5. Test the endpoints with the above commands, or can test by postman, I have included the collection in json format.