Unit Testing Framework

Environment: Testing (Run by docker)

Test Case

1. Create new quotation
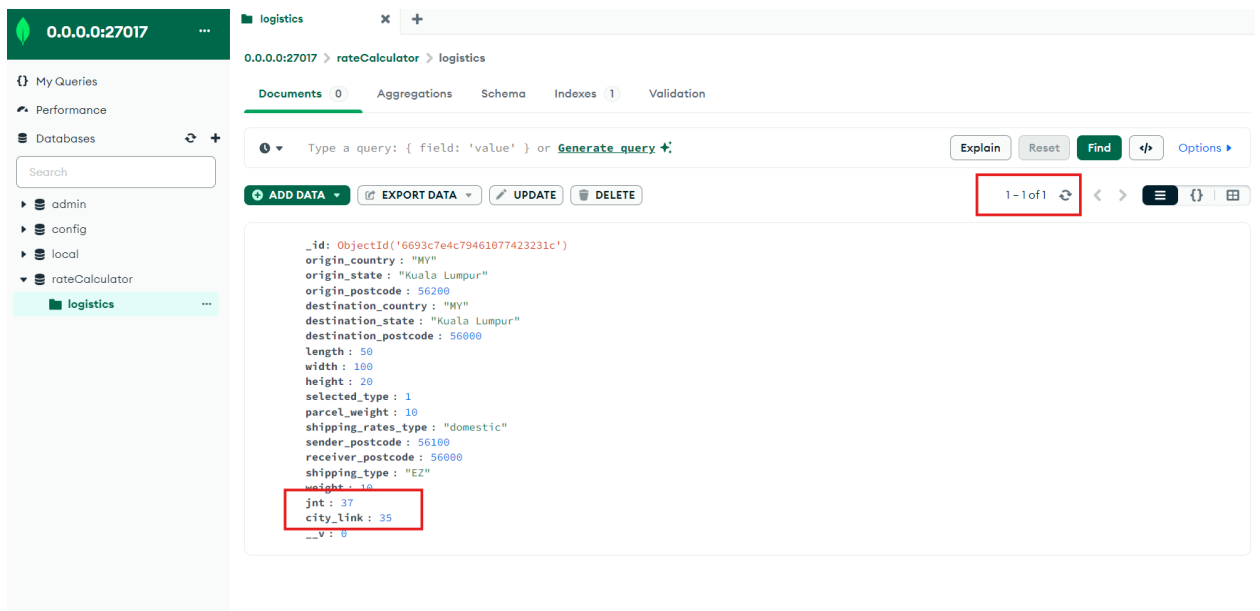
   Endpoint:
   POST {{URL}}/api/v1/logistic/logistic-jnt-city

   Payload:
   ```
   {
       "origin_country": "MY",

       "origin_state": "Kuala Lumpur",

       "origin_postcode": 56200,

       "destination_country": "MY",

       "destination_state": "Kuala Lumpur",

       "destination_postcode": 56000,

       "length": 50,

       "width": 100,

       "height": 20,

       "selected_type" : 1,

       "parcel_weight": 10,

       "shipping_rates_type": "domestic",

       "sender_postcode": 56100,

       "receiver_postcode": 56000,

       "shipping_type": "EZ",

       "weight": 10
   }
   ```

Result:


```json
{
    "data": [
        {
            "courier": "cityLink",
            "rate": 35
        },
        {
            "courier": "jnt",
            "rate": 37
        }
    ]
}
```


Log:
Will print log within file access.log

2. Create Existing quotation (duplicate)

Endpoint:
POST {{URL}}/api/v1/logistic/logistic-jnt-city

Payload:

```
{

    "origin_country": "MY",

    "origin_state": "Kuala Lumpur",

    "origin_postcode": 56200,

    "destination_country": "MY",

    "destination_state": "Kuala Lumpur",

    "destination_postcode": 56000,

    "length": 50,

    "width": 100,

    "height": 20,

    "selected_type" : 1,

    "parcel_weight": 10,

    "shipping_rates_type": "domestic",

    "sender_postcode": 56100,

    "receiver_postcode": 56000,

    "shipping_type": "EZ",

    "weight": 10

}
```

Result:

*No new collection created as it is cached from database

Log:
Will print log within file access.log

3. Create Multiple quotation until get blocked.
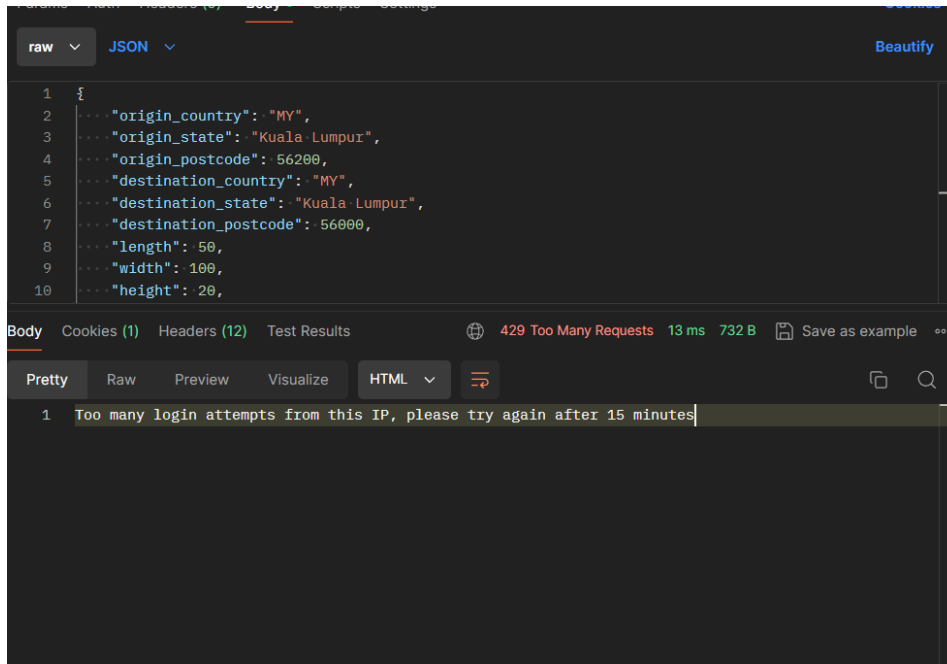
Endpoint:
POST {{URL}}/api/v1/logistic/logistic-jnt-city

Payload:

```
{

  "origin_country": "MY",

  "origin_state": "Kuala Lumpur",

  "origin_postcode": 56200,

  "destination_country": "MY",

  "destination_state": "Kuala Lumpur",

  "destination_postcode": 56000,

  "length": 50,

  "width": 100,

  "height": 20,

  "selected_type" : 1,

  "parcel_weight": 10,

  "shipping_rates_type": "domestic",

  "sender_postcode": 56100,

  "receiver_postcode": 56000,

  "shipping_type": "EZ",

  "weight": 10

}
```

*submit payload through postman for 11 times consecutively before 15 minutes

Result:

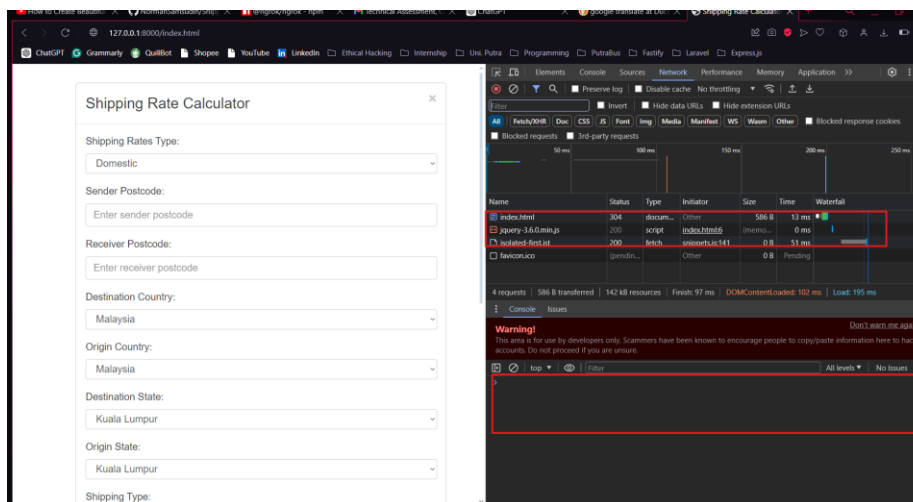*request get blocked by ip address

Log:
Will print log within file access.log

4. Allow to execute script from trusted domain only and set Content Security Policy
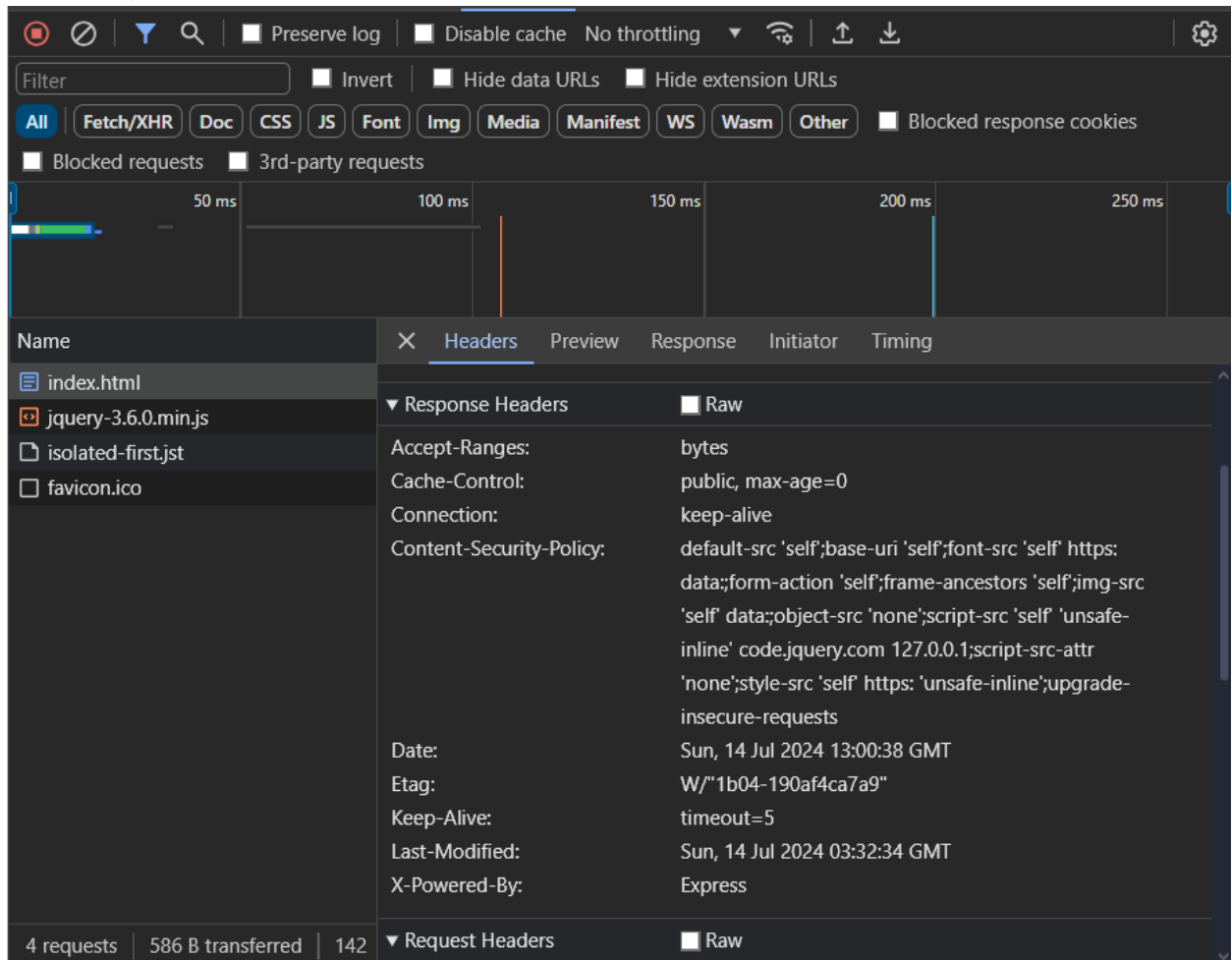
   Go to page http://127.0.0.1:8000/index.html
   Right Click -> Inspect Element
   Click Network Tab

Click on index.html
Check response header

5. Testing Environment with ngrok

Endpoint:

POST {{URL}}/api/v1/logistic/logistic-jnt-city

Payload:
{

   "origin_country": "MY",

   "origin_state": "Kuala Lumpur",

   "origin_postcode": 56200,

```
    "destination_country": "MY",

    "destination_state": "Kuala Lumpur",

    "destination_postcode": 56000,

    "length": 50,

    "width": 100,

    "height": 20,

    "selected_type" : 1,

    "parcel_weight": 10,

    "shipping_rates_type": "domestic",

    "sender_postcode": 56100,

    "receiver_postcode": 56000,

    "shipping_type": "EZ",

    "weight": 10

}
```

Result:

Log:
Will print log within file access.log

6. Swagger-UI Testing

Go to page http://127.0.0.1:8000/api-docs/#
Click on endpoint "/logistic-jnt-city"
Click Try it out
Click Execute

```
curl -X POST \
  'http://127.0.0.1:8000/api/v1/logistic/logistic-jnt-city' \
  -H 'accept: application/json' \
  -H 'Content-Type: application/json' \
  -d '{
  "origin_country": "MY",
  "origin_state": "Kuala Lumpur",
  "origin_postcode": 56100,
  "destination_country": "MY",
  "destination_state": "Kuala Lumpur",
  "destination_postcode": 56000,
  "length": 50,
  "width": 70,
  "height": 20,
  "selected_type": 1,
  "parcel_weight": 14,
  "document_weight": "",
  "shipping_rates_type": "domestic",
  "sender_postcode": 56100,
  "receiver_postcode": 56000,
  "shipping_type": "EZ",
  "weight": 20,
  "item_value": ""
}'
```

Request URL

```
http://127.0.0.1:8000/api/v1/logistic/logistic-jnt-city
```

Server response

Code	Details
200	Response body

```
{
  "data": [
    {
      "courier": "cityLink",
      "rate": 35
    },
    {
      "courier": "jnt",
      "rate": 52
    }
  ]
}
```

7. SAP Form Testing

Go to page http://127.0.0.1:8000/api-docs/#
Enter Details similar to this payload or any details
{

    "origin_country": "MY",

    "origin_state": "Kuala Lumpur",

    "origin_postcode": 56200,

    "destination_country": "MY",

    "destination_state": "Kuala Lumpur",

    "destination_postcode": 56000,

    "length": 50,

"width": 100,

"height": 20,

"selected_type" : 1,

"parcel_weight": 10,

"shipping_rates_type": "domestic",

"sender_postcode": 56100,

"receiver_postcode": 56000,

"shipping_type": "EZ",

"weight": 10

}
Click button "Calculate Shipping Rate"
Result: