

Unit Testing Framework

Environment: Testing (Run by docker)

Test Case

1. Create new quotation

Endpoint:

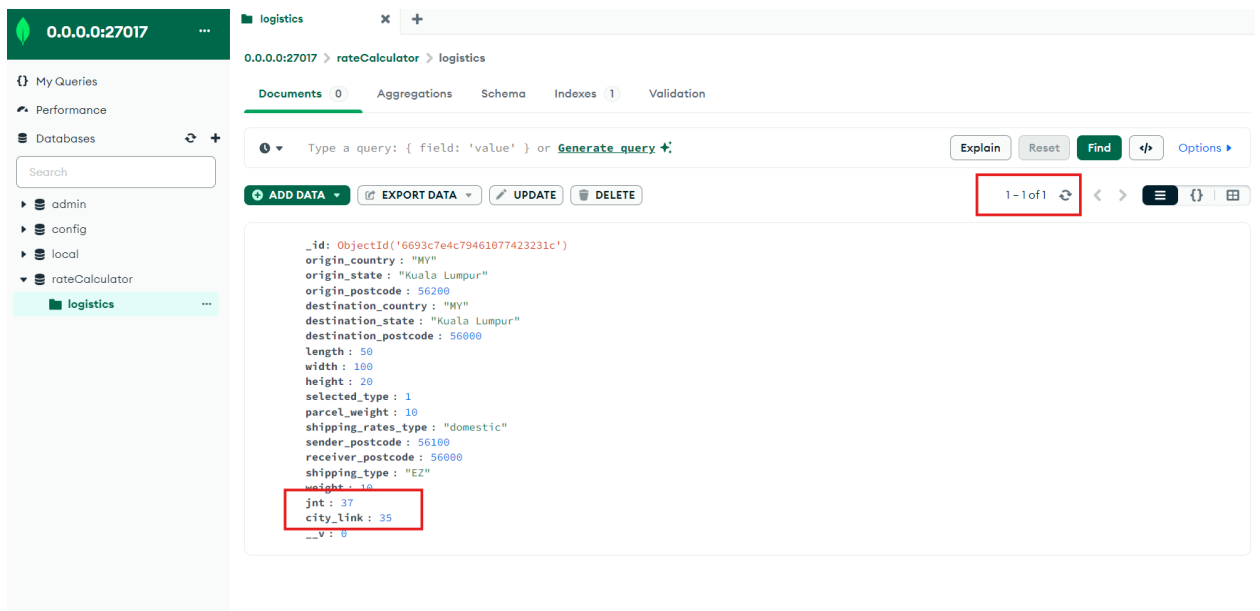
POST {{URL}}/api/v1/logistic/logistic-jnt-city

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:

```
{
  "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:

The screenshot shows the MongoDB Compass interface. On the left, the 'Databases' sidebar lists 'admin', 'config', 'local', 'rateCalculator', and 'logistics' (highlighted). The main panel shows the 'Documents' tab for the 'logistics' collection. A single document is displayed with the following fields and values:

```
{
  "_id": ObjectId('6693c7e4c79461077423231c'),
  "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,
  "jst": 37,
  "city_link": 35,
  "...v": 0
}
```

*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:

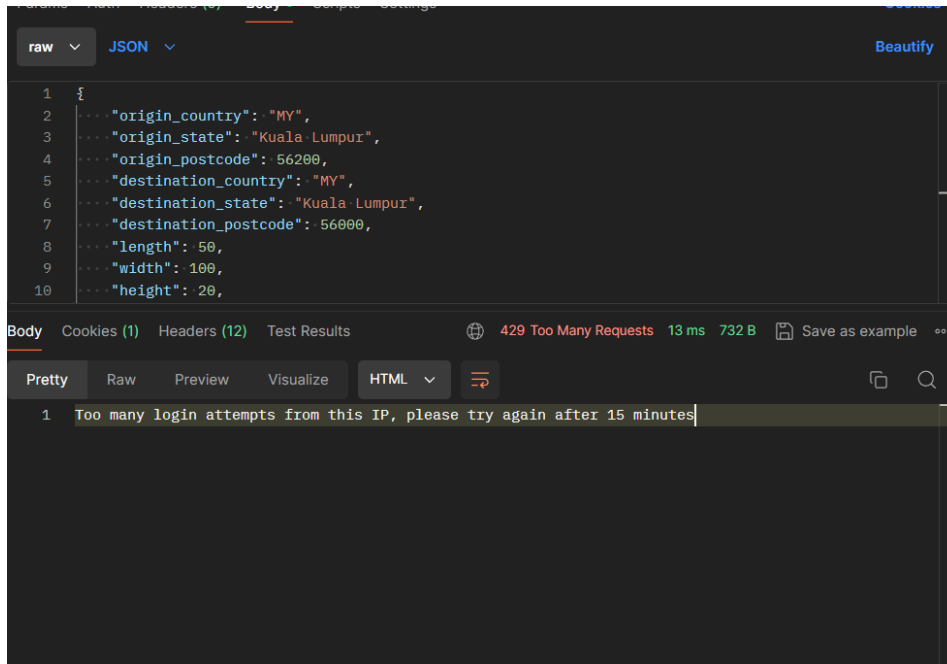
POST {{URL}}/api/v1/logistic/logistic-jnt-city

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:

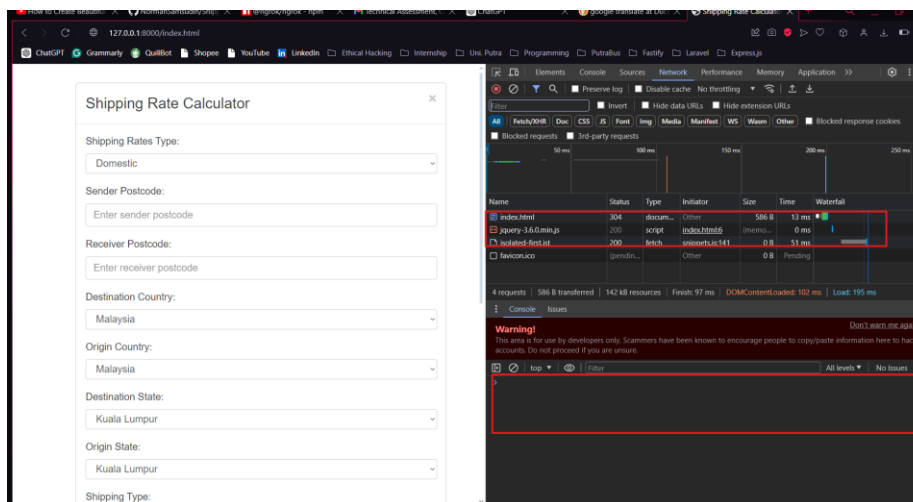
Will print log within file access.log

4. Allow to execute script from trusted domain only and set Content Security Policy

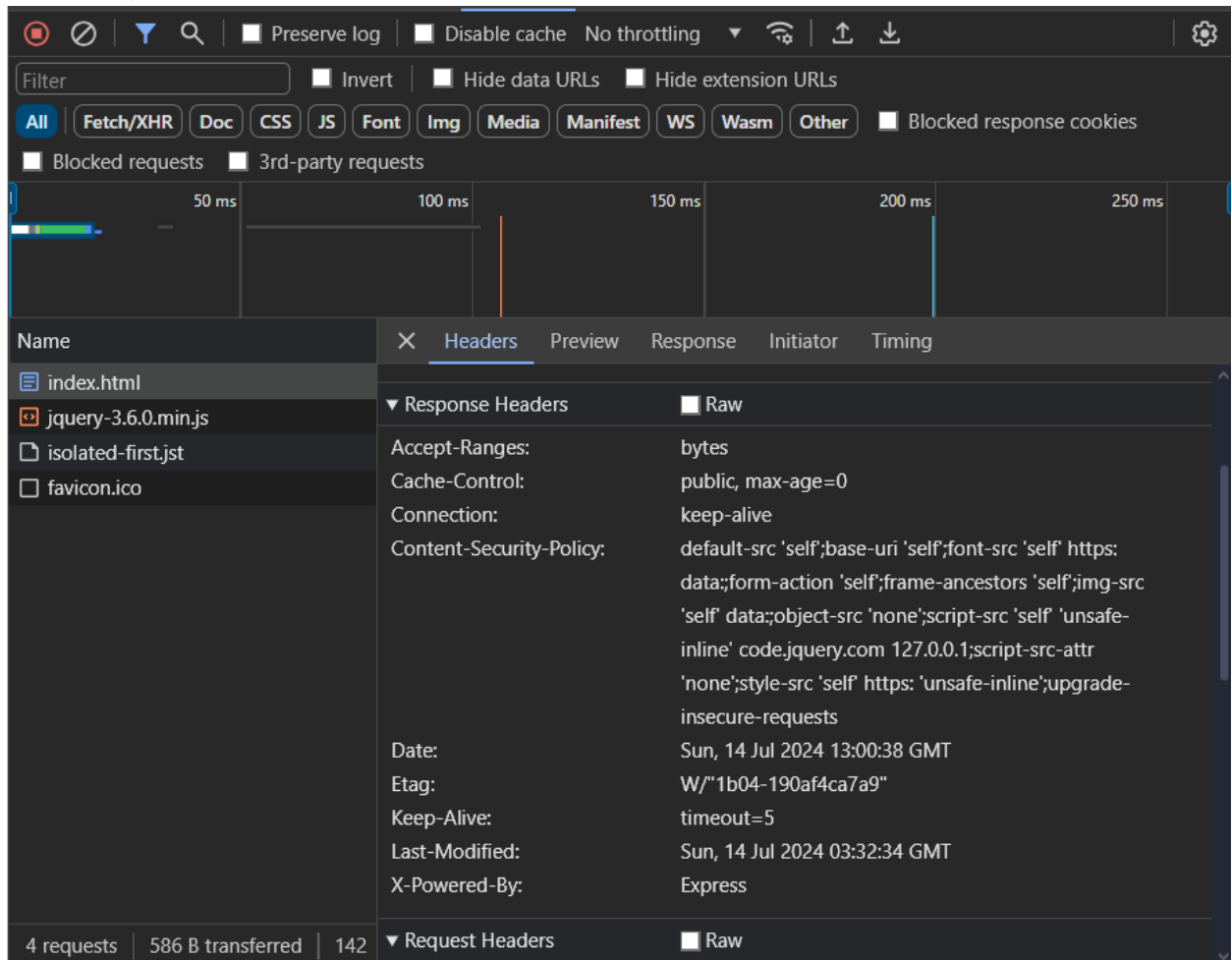
Go to page <http://127.0.0.1:8000/index.html>

Right Click -> Inspect Element

Click Network Tab



Click on index.html
Check response header



5. Testing Environment with ngrok

Endpoint:

```
express_application | App running on port 8000...
express_application | Ngrok established at: https://f4e2-60-53-27-161.ngrok-free.app
```

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:

The screenshot displays a REST client interface with a POST request to the URL `https://f4e2-60-53-27-161.ngrok-free.app/api/v1/logistic/logistic-jnt-city`. The request body is a JSON object with the following fields: `origin_country`, `origin_state`, `origin_postcode`, `destination_country`, `destination_state`, `destination_postcode`, `length`, `width`, `height`, `selected_type`, `parcel_weight`, `shipping_rates_type`, `sender_postcode`, `receiver_postcode`, `shipping_type`, and `weight`. The response is a 200 OK status with a response time of 132 ms and a body size of 659 B. The response body is a JSON object with a `data` array containing two objects, each representing a shipping rate for a different courier.

```
POST https://f4e2-60-53-27-161.ngrok-free.app/api/v1/logistic/logistic-jnt-city
{
  "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
}
```

200 OK 132 ms 659 B Save as example

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

Log:

Will print log within file access.log

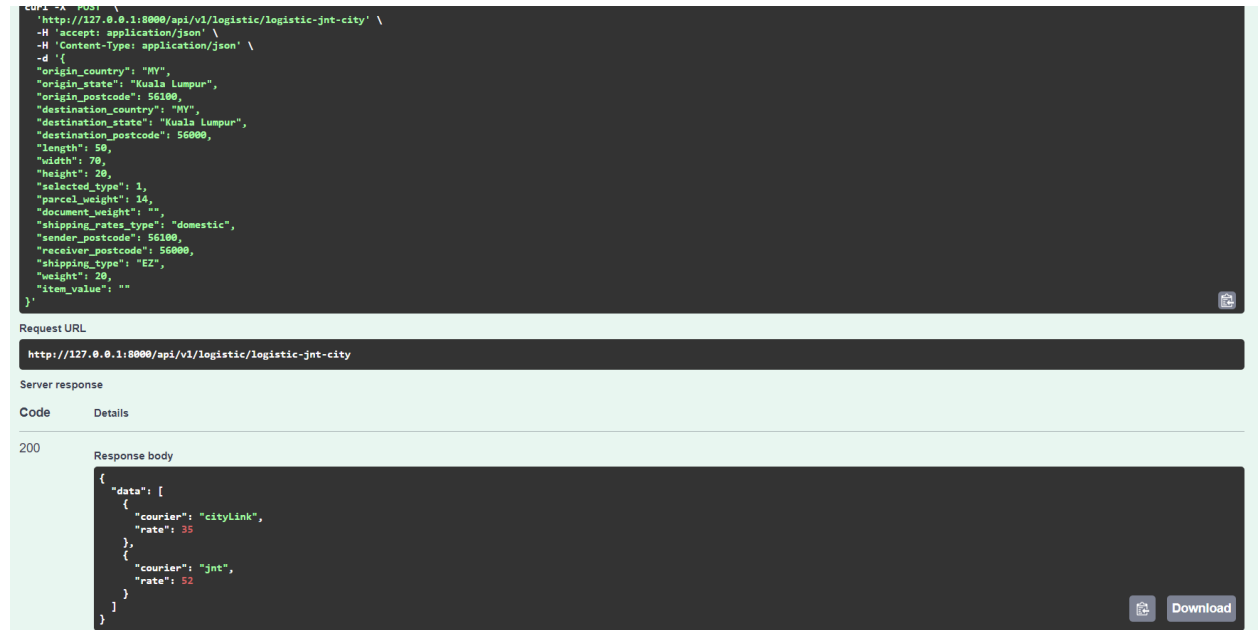
6. Swagger-UI Testing

Go to page <http://127.0.0.1:8000/api-docs/#>

Click on endpoint “/logistic-jnt-city”

Click Try it out

Click Execute



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:

Kuala Lumpur

Shipping Type:

Regular

Weight:

20

Length:

20

Width:

20

Height:

20

Item Type:

Parcel

Calculate Shipping Rate

Close

Shipping Rate: J&T = 37, City-Link = 35