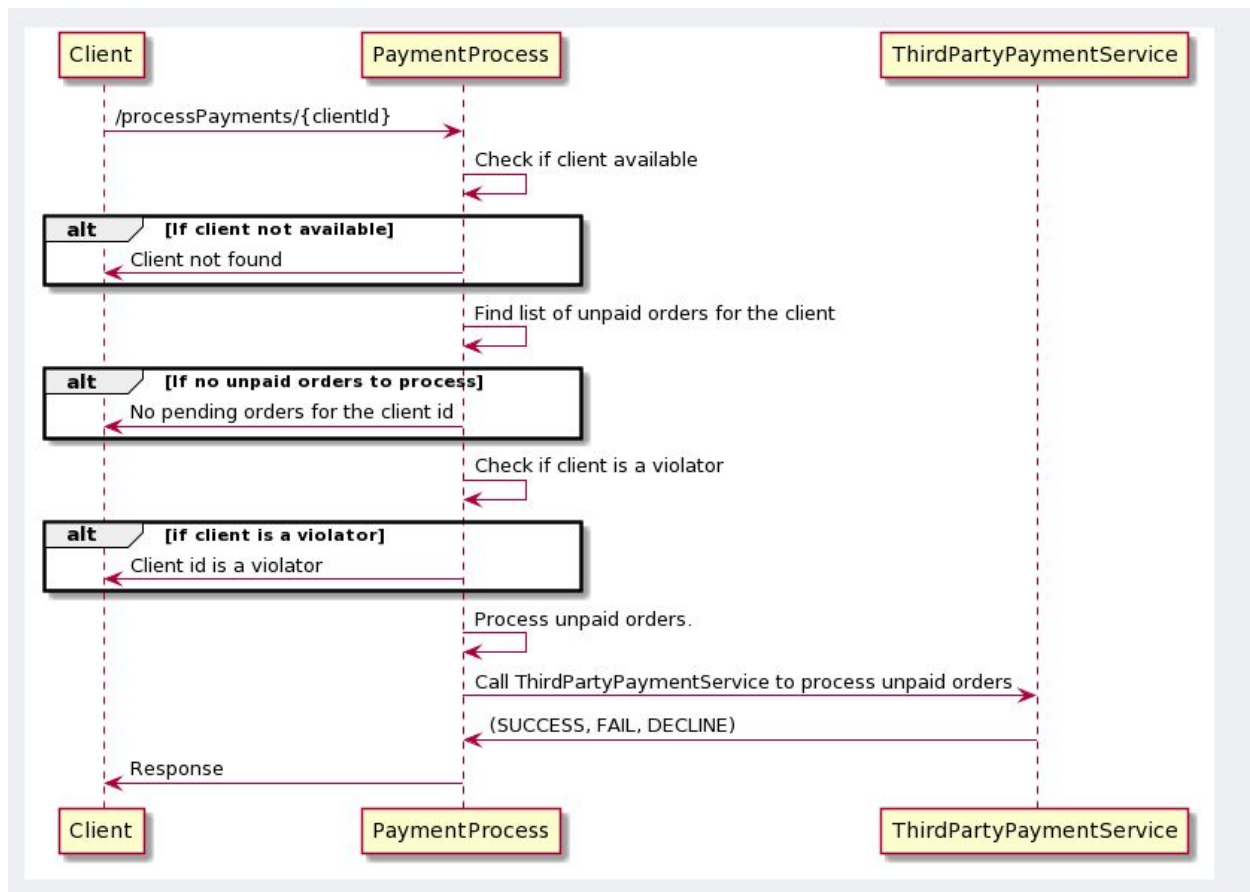
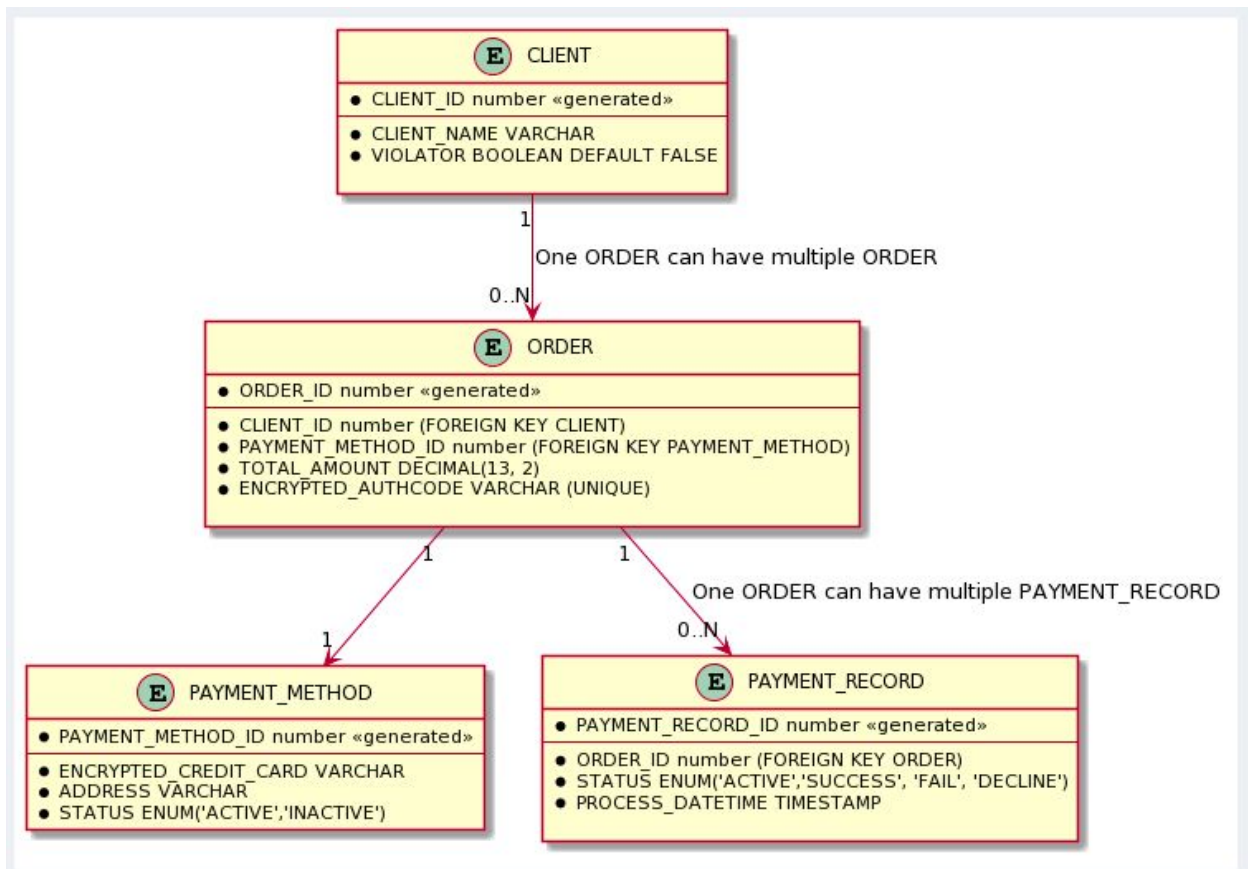


Sequence Diagram



ER Diagram



Testing

Case: Client Not found

http://localhost:8080/ http://localhost:8080/ + ...

POST http://localhost:8080/processPayments/20

Authorization Headers Body Pre-request Script Tests

Type

Body Cookies Headers (5) Test Results

Pretty Raw Preview JSON

```
1 {  
2   "timestamp": "2020-09-21T16:54:04.243",  
3   "message": "Client not found, Client with Id 20 not found"  
4 }
```

Case: Client is already a violator

Run Run Selected Auto complete Clear SQL statement:

SELECT * FROM CLIENT WHERE CLIENT_ID=9

SELECT * FROM CLIENT WHERE CLIENT_ID=9;

CLIENT_ID	CLIENT_NAME	VIOLATOR	CREATED	UPDATED
9	Rice	TRUE	2020-09-21 22:05:45.963	null


(1 row, 8 ms)

POST ▼ http://localhost:8080/processPayments/9

Authorization Headers Body Pre-request Script Tests

Type No Auth ▼

Body Cookies Headers (5) Test Results Status: 422 Unprocess

Pretty Raw Preview JSON ▼ 

```

1 {
2   "timestamp": "2020-09-21T22:07:26.756",
3   "message": "Client is a violator, Client with Id 9 have multiple payment record and marked as violator"
4 }

```

Case: Client is a violator

Before payment processing

Run Run Selected Auto complete Clear SQL statement:

select * from client where client_id=6

select * from client where client_id=6;

CLIENT_ID	CLIENT_NAME	VIOLATOR	CREATED	UPDATED
6	Jaddu	FALSE	2020-09-21 16:39:27.571	null

(1 row, 4 ms)

After processing for client id=6


http://localhost:8080/ ● http://localhost:8080/ ● + ...

POST ▼ http://localhost:8080/processPayments/6

Authorization Headers Body Pre-request Script Tests

Type No Auth ▼

Body Cookies Headers (5) Test Results

Pretty Raw Preview JSON ▼ 

```

1 {
2   "response": "VIOLATOR",
3   "orderDetailsList": null
4 }

```

Run Run Selected Auto complete Clear SQL statement:

SELECT * FROM CLIENT WHERE CLIENT_ID=6

SELECT * FROM CLIENT WHERE CLIENT_ID=6;

CLIENT_ID	CLIENT_NAME	VIOLATOR	CREATED	UPDATED
6	Jaddu	TRUE	2020-09-21 16:39:27.571	2020-09-21 18:03:19.369

(1 row, 3 ms)

SECOND CALL

http://localhost:8080/ http://localhost:8080/ + ... No En

POST http://localhost:8080/processPayments/6 Parar

Authorization Headers Body Pre-request Script Tests

Type No Auth

Body Cookies Headers (5) Test Results Status: 422 Unprocessabl

Pretty Raw Preview JSON

```
1 {
2   "timestamp": "2020-09-21T22:09:41.905",
3   "message": "Client is a violator, Client with Id 6 have multiple payment record and marked as violator"
4 }
```

Case: Client with successfully paid order are not considered as unpaid orders

Orders before processing

http://localhost:8080/ http://localhost:8080/ + ...

POST http://localhost:8080/orderDetails/1

Authorization Headers Body Pre-request Script Tests

Type No Auth

Body Cookies Headers (5) Test Results

Pretty Raw Preview JSON

```
1 [
2   {
3     "clientId": 1,
4     "paymentRecordId": 1,
5     "orderId": 1,
6     "clientName": "George",
7     "totalAmount": 10.12,
8     "paymentRecordStatus": "SUCCESS",
9     "processDate": "2020-09-21 16:39:27.579"
10  }
11 ]
```

Orders after processing

The screenshot shows a REST client interface with the following details:

- URLs:** http://localhost:8080/
- Method:** POST
- Path:** http://localhost:8080/processPayments/1
- Authorization:** No Auth
- Body:** Pretty, Raw, Preview (selected)
- JSON:** JSON (selected)
- Response:**

```
1 {
2   "response": "Success",
3   "orderDetailsList": [
4     {
5       "clientId": 1,
6       "paymentRecordId": 1,
7       "orderId": 1,
8       "clientName": "George",
9       "totalAmount": 10.12,
10      "paymentRecordStatus": "SUCCESS",
11      "processDate": "2020-09-21 16:39:27.579"
12    }
13  ]
14 }
```

Case: DECLINE payment record For current Active payment method

Before processing

The screenshot shows a REST client interface with two tabs at the top, both pointing to `http://localhost:8080/`. The active tab is set to **POST** with the URL `http://localhost:8080/orderDetails/3`. Below the URL bar, there are tabs for **Authorization**, **Headers**, **Body**, **Pre-request Script**, and **Tests**. The **Authorization** tab is selected, showing a **Type** dropdown set to **No Auth**. Below this, there are tabs for **Body**, **Cookies**, **Headers (5)**, and **Test Results**. The **Body** tab is selected, showing a **Pretty** view of the request body in **JSON** format. The JSON body is as follows:

```
[
  {
    "clientId": 3,
    "paymentRecordId": 2,
    "orderId": 5,
    "clientName": "Simon",
    "totalAmount": 29.18,
    "paymentRecordStatus": "DECLINE",
    "processDate": "2020-09-21 16:39:27.587"
  }
]
```

After processing.

http://localhost:8080/ http://localhost:8080/ + ...

POST `http://localhost:8080/processPayments/3`

Authorization Headers Body Pre-request Script Tests

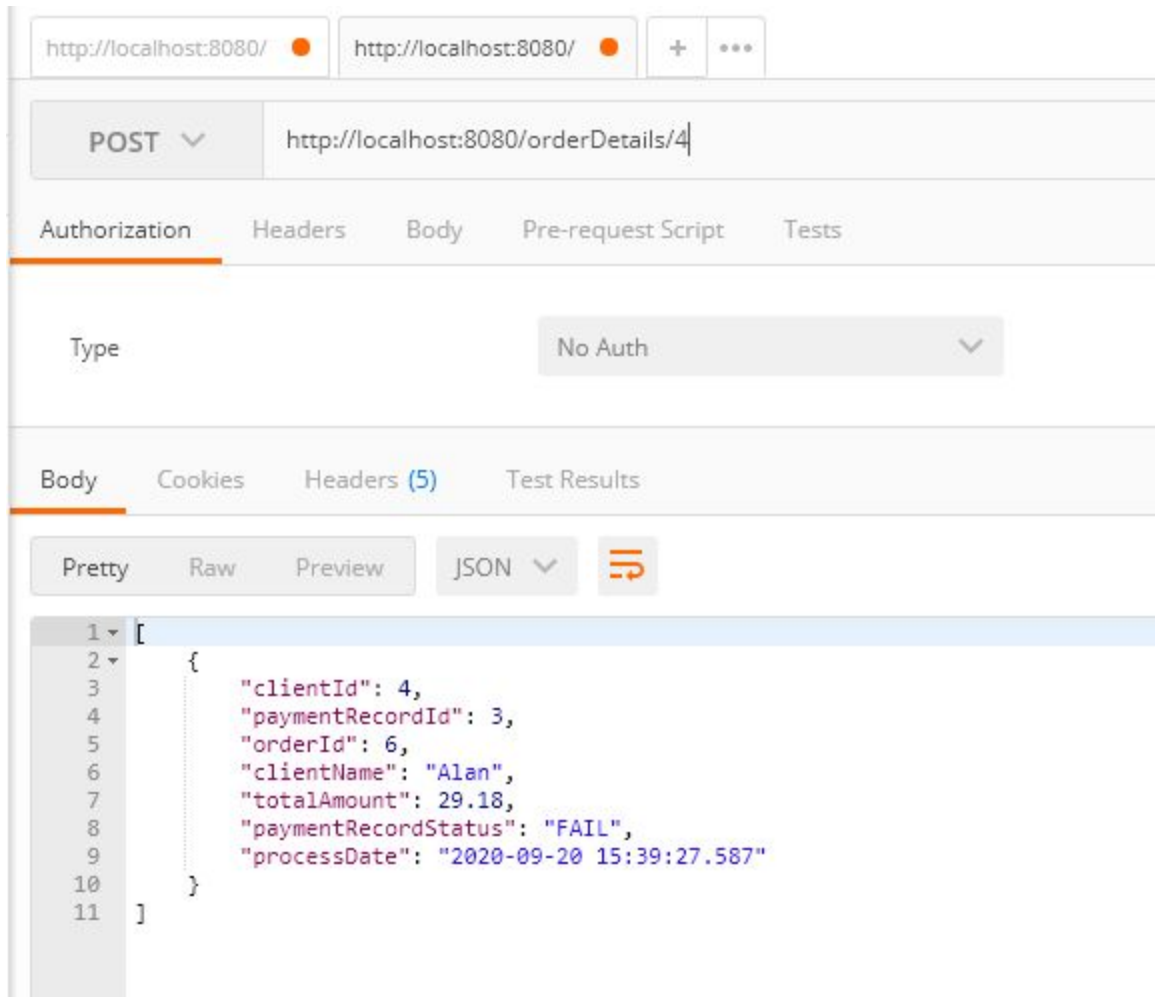
Type No Auth

Body Cookies Headers (5) Test Results

Pretty Raw Preview JSON

```
1 {
2   "response": "Success",
3   "orderDetailsList": [
4     {
5       "clientId": 3,
6       "paymentRecordId": 2,
7       "orderId": 5,
8       "clientName": "Simon",
9       "totalAmount": 29.18,
10      "paymentRecordStatus": "DECLINE",
11      "processDate": "2020-09-21 16:39:27.587"
12    }
13  ]
14 }
```

Case: Failed payment record For current Active payment method which was processed more than 24 hr back.
Before processing



After processing new payment records needs to be created.

http://localhost:8080/ http://localhost:8080/ + ...

POST http://localhost:8080/processPayments/4


Body Cookies Headers (5) Test Results


Pretty Raw Preview JSON

```
1 {
2   "response": "Success",
3   "orderDetailsList": [
4     {
5       "clientId": 4,
6       "paymentRecordId": 3,
7       "orderId": 6,
8       "clientName": "Alan",
9       "totalAmount": 29.18,
10      "paymentRecordStatus": "FAIL",
11      "processDate": "2020-09-20 15:39:27.587"
12    },
13    {
14      "clientId": 4,
15      "paymentRecordId": 7,
16      "orderId": 6,
17      "clientName": "Alan",
18      "totalAmount": 29.18,
19      "paymentRecordStatus": "SUCCESS",
20      "processDate": "2020-09-21 18:16:52.883"
21    }
22  ]
23 }
```

Case: Failed payment record For current Active payment method processed within last 24 hr

Before processing

http://localhost:8080/ 

http://localhost:8080/ 

+

...

POST ▾

http://localhost:8080/orderDetails/5

Authorization

Headers

Body

Pre-request Script

Tests

Type

No Auth ▾

Body

Cookies

Headers (5)


Test Results

Pretty

Raw

Preview

JSON ▾



1 ▾ [

2 ▾ {

3 "clientId": 5,

4 "paymentRecordId": 4,

5 "orderId": 7,

6 "clientName": "Kevin",

7 "totalAmount": 39.18,

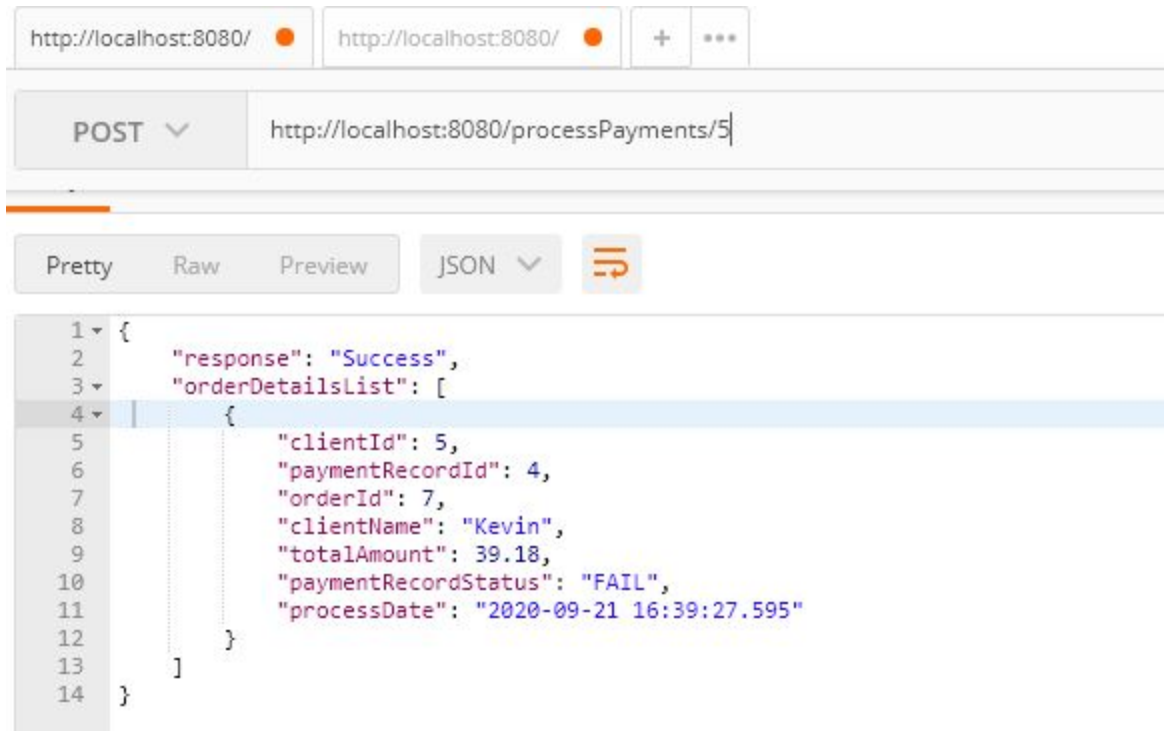
8 "paymentRecordStatus": "FAIL",

9 "processDate": "2020-09-21 16:39:27.595"

10 }

11]

After processing



Test Coverage Report

payment.processing

payment.processing

Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
com.nexus.payment.processing.dao.impl	<div><div></div></div>	90%	<div><div></div></div>	100%	1	17	4	43	1	15	0	2
com.nexus.payment.processing	<div><div></div></div>	78%	<div><div></div></div>	100%	2	7	4	15	2	6	0	2
com.nexus.payment.processing.service.impl	<div><div></div></div>	91%	<div><div></div></div>	80%	3	13	2	28	1	8	0	3
com.nexus.payment.processing.rowmapper	<div><div></div></div>	100%		n/a	0	6	0	27	0	6	0	3
com.nexus.payment.processing.service	<div><div></div></div>	100%		n/a	0	2	0	8	0	2	0	2
com.nexus.payment.processing.advice	<div><div></div></div>	100%		n/a	0	3	0	9	0	3	0	1
com.nexus.payment.processing.exception	<div><div></div></div>	100%		n/a	0	2	0	4	0	2	0	2
Total	54 of 758	92%	2 of 16	87%	6	50	10	134	4	42	0	15