

CUSTOMER-INFO-SERVICE:

1. Post personal customer without errors:

The screenshot shows a Postman request to `localhost:8081/api/v1/customers` using the `POST` method. The `Body` tab contains the following JSON payload:

```
1 {
2   "type": "Personal",
3   "status": "Active",
4   "personDetails": {
5     "name": "Luis",
6     "lastname": "Mendoza",
7     "identityNumber": "74145236",
8     "address": {
9       "number": 144,
10      "street": "Av. Ricardo Palma",
11      "city": "Cuzco",
12      "country": "Peru"
13    }
14 }
```

The response status is `201 Created`, and the response body is identical to the request body.

2. Post new personal customer with error: duplicated identityNumber field

As it can be seen, the customer to create have the same identityNumber as the user created in operation 1. For that reason, post operation returns a 409-conflict error.

The screenshot shows a Postman request to `localhost:8081/api/v1/customers` using the `POST` method. The `Body` tab contains the following JSON payload, which includes a duplicate identity number:

```
1 {
2   "type": "Personal",
3   "status": "Active",
4   "personDetails": {
5     "name": "Jorge",
6     "lastname": "Valdivia",
7     "identityNumber": "74145236",
8     "address": {
9       "number": 45,
10      "street": "Av. Rogelio Diaz",
11    }
12 }
```

The response status is `409 Conflict`, and the response body is a simple integer `1`.

In the application console we can see the following logs:

```

2022-01-10 18:47:28.421 INFO 24484 --- [nio-8081-exec-1] c.n.b.c.b.impl.CustomerServiceImpl : Creating new customer: [Customer(id=null, type=Personal, status=Active, person...
2022-01-10 18:47:29.425 INFO 24484 --- [nio-8081-exec-1] c.n.b.c.b.impl.CustomerServiceImpl : New customer was created successfully
2022-01-10 18:48:06.786 INFO 24484 --- [nio-8081-exec-1] c.n.b.c.b.impl.CustomerController : Get operation in /customers
2022-01-10 18:48:06.786 INFO 24484 --- [nio-8081-exec-1] c.n.b.c.b.impl.CustomerServiceImpl : Start of operation to retrieve all customers
2022-01-10 18:48:06.786 INFO 24484 --- [nio-8081-exec-1] c.n.b.c.b.impl.CustomerServiceImpl : Retrieving all customers
2022-01-10 18:48:06.797 INFO 24484 --- [nio-8081-exec-1] c.n.b.c.b.impl.CustomerServiceImpl : All customers retrieved successfully
2022-01-10 18:48:06.797 INFO 24484 --- [nio-8081-exec-1] c.n.b.c.b.impl.CustomerController : End of operation to retrieve all customers
2022-01-10 19:00:57.429 INFO 24484 --- [nio-8081-exec-1] c.n.b.c.b.impl.CustomerController : Post operation in /customers
2022-01-10 19:00:57.429 INFO 24484 --- [nio-8081-exec-1] c.n.b.c.b.impl.CustomerServiceImpl : Start of operation to create a customer
2022-01-10 19:00:57.429 INFO 24484 --- [nio-8081-exec-1] c.n.b.c.b.impl.CustomerServiceImpl : Validating customer uniqueness
2022-01-10 19:00:57.430 INFO 24484 --- [nio-8081-exec-1] c.n.b.c.b.impl.CustomerServiceImpl : Start of operation to retrieve all customers
2022-01-10 19:00:57.430 INFO 24484 --- [nio-8081-exec-1] c.n.b.c.b.impl.CustomerController : Retrieving all customers
2022-01-10 19:00:57.430 INFO 24484 --- [nio-8081-exec-1] c.n.b.c.b.impl.CustomerController : All customers retrieved successfully
2022-01-10 19:00:57.430 INFO 24484 --- [nio-8081-exec-1] c.n.b.c.b.impl.CustomerController : End of operation to retrieve all customers
2022-01-10 19:00:57.430 INFO 24484 --- [nio-8081-exec-1] c.n.b.c.b.impl.CustomerController : Post operation in /customers
2022-01-10 19:00:57.430 INFO 24484 --- [nio-8081-exec-1] c.n.b.c.b.impl.CustomerController : Start of operation to create a customer
2022-01-10 19:00:57.430 INFO 24484 --- [nio-8081-exec-1] c.n.b.c.b.impl.CustomerController : Validating customer uniqueness
2022-01-10 19:00:57.435 INFO 24484 --- [nio-8081-exec-1] c.n.b.c.b.impl.CustomerController : Start of operation to retrieve all customers
2022-01-10 19:00:57.435 INFO 24484 --- [nio-8081-exec-1] c.n.b.c.b.impl.CustomerController : Retrieving all customers
2022-01-10 19:00:57.435 INFO 24484 --- [nio-8081-exec-1] c.n.b.c.b.impl.CustomerController : All customers retrieved successfully
2022-01-10 19:00:57.435 INFO 24484 --- [nio-8081-exec-1] c.n.b.c.b.impl.CustomerController : End of operation to retrieve all customers
2022-01-10 19:00:57.436 INFO 24484 --- [nio-8081-exec-1] c.n.b.c.b.impl.CustomerController : Post operation in /customers
2022-01-10 19:00:57.436 INFO 24484 --- [nio-8081-exec-1] c.n.b.c.b.impl.CustomerController : Start of operation to create a customer
2022-01-10 19:00:57.436 INFO 24484 --- [nio-8081-exec-1] c.n.b.c.b.impl.CustomerController : Validating customer uniqueness
2022-01-10 19:00:57.436 INFO 24484 --- [nio-8081-exec-1] c.n.b.c.b.impl.CustomerController : Start of operation to retrieve all customers
2022-01-10 19:00:57.436 INFO 24484 --- [nio-8081-exec-1] c.n.b.c.b.impl.CustomerController : Retrieving all customers
2022-01-10 19:00:57.436 INFO 24484 --- [nio-8081-exec-1] c.n.b.c.b.impl.CustomerController : All customers retrieved successfully
2022-01-10 19:00:57.436 INFO 24484 --- [nio-8081-exec-1] c.n.b.c.b.impl.CustomerController : End of operation to retrieve all customers
2022-01-10 19:00:57.436 INFO 24484 --- [nio-8081-exec-1] c.n.b.c.b.impl.CustomerController : Post operation in /customers
2022-01-10 19:00:57.436 INFO 24484 --- [nio-8081-exec-1] c.n.b.c.b.impl.CustomerController : Start of operation to create a customer
2022-01-10 19:00:57.436 INFO 24484 --- [nio-8081-exec-1] c.n.b.c.b.impl.CustomerController : Validating customer uniqueness
2022-01-10 19:00:57.436 INFO 24484 --- [nio-8081-exec-1] c.n.b.c.b.impl.CustomerController : Start of operation to retrieve all customers
2022-01-10 19:00:57.436 INFO 24484 --- [nio-8081-exec-1] c.n.b.c.b.impl.CustomerController : Retrieving all customers
2022-01-10 19:00:57.436 INFO 24484 --- [nio-8081-exec-1] c.n.b.c.b.impl.CustomerController : All customers retrieved successfully
2022-01-10 19:00:57.436 INFO 24484 --- [nio-8081-exec-1] c.n.b.c.b.impl.CustomerController : End of operation to retrieve all customers
2022-01-10 19:08:46.646 INFO 24484 --- [nio-8081-exec-1] c.n.b.c.b.impl.CustomerController : Post operation in /customers
2022-01-10 19:08:46.646 INFO 24484 --- [nio-8081-exec-1] c.n.b.c.b.impl.CustomerController : Start of operation to create a customer
2022-01-10 19:08:46.647 INFO 24484 --- [nio-8081-exec-1] c.n.b.c.b.impl.CustomerController : Validating customer uniqueness
2022-01-10 19:08:46.647 INFO 24484 --- [nio-8081-exec-1] c.n.b.c.b.impl.CustomerController : Start of operation to retrieve all customers
2022-01-10 19:08:46.647 INFO 24484 --- [nio-8081-exec-1] c.n.b.c.b.impl.CustomerController : Retrieving all customers
2022-01-10 19:08:46.648 INFO 24484 --- [nio-8081-exec-1] c.n.b.c.b.impl.CustomerController : All customers retrieved successfully
2022-01-10 19:08:46.648 INFO 24484 --- [nio-8081-exec-1] c.n.b.c.b.impl.CustomerController : End of operation to retrieve all customers
2022-01-10 19:08:46.648 INFO 24484 --- [nio-8081-exec-1] c.n.b.c.b.impl.CustomerController : Post operation in /customers
2022-01-10 19:08:46.648 INFO 24484 --- [nio-8081-exec-1] c.n.b.c.b.impl.CustomerController : Start of operation to create a customer
2022-01-10 19:08:46.648 INFO 24484 --- [nio-8081-exec-1] c.n.b.c.b.impl.CustomerController : Validating customer uniqueness
2022-01-10 19:08:46.648 INFO 24484 --- [nio-8081-exec-1] c.n.b.c.b.impl.CustomerController : Start of operation to retrieve all customers
2022-01-10 19:08:46.648 INFO 24484 --- [nio-8081-exec-1] c.n.b.c.b.impl.CustomerController : Retrieving all customers
2022-01-10 19:08:46.648 INFO 24484 --- [nio-8081-exec-1] c.n.b.c.b.impl.CustomerController : All customers retrieved successfully
2022-01-10 19:08:46.648 INFO 24484 --- [nio-8081-exec-1] c.n.b.c.b.impl.CustomerController : End of operation to retrieve all customers
2022-01-10 19:08:46.648 INFO 24484 --- [nio-8081-exec-1] c.n.b.c.b.impl.CustomerController : Post operation in /customers
2022-01-10 19:08:46.648 INFO 24484 --- [nio-8081-exec-1] c.n.b.c.b.impl.CustomerController : Start of operation to create a customer
2022-01-10 19:08:46.648 INFO 24484 --- [nio-8081-exec-1] c.n.b.c.b.impl.CustomerController : Validating customer uniqueness
2022-01-10 19:08:46.648 INFO 24484 --- [nio-8081-exec-1] c.n.b.c.b.impl.CustomerController : Customer does not accomplish with uniqueness specifications
2022-01-10 19:08:46.658 WARN 24484 --- [nio-8081-exec-1] c.n.b.c.b.impl.CustomerController : Proceeding to abort create operation

```

3. Post business customer without errors:

customer-info-service / Post new business account without error

POST localhost:8081/api/v1/customers

Params Authorization Headers (9) Body Cookies Settings

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```

1 {
  "type": "Business",
  "status": "Active",
  "businessDetails": {
    "name": "Fictitious SAC",
    "ruc": "20874563347",
    "address": {
      "number": 10,
      "street": "Jr. Comercio",
      "city": "Lima",
    }
  }
}

```

Body Cookies Headers (2) Test Results

Pretty Raw Preview Visualize JSON

Status: 201 Created Time: 23 ms Size: 879 B Save Response

```

1
2   "id": "61dec8b0fffb2e3495cb4261a",
3   "type": "Business",
4   "status": "Active",
5   "personals": null,
6   "businessDetails": {
7     "name": "Ficticos SAC",
8     "ruc": "20874563347",
9     "address": {
10       "number": 10,
11       "street": "Jr. Comercio",

```

Find and Replace Console Capture Requests Bootcamp Runner Trash

4. Post new business customer with error: duplicated name field:

As it can be seen, the customer to create have the same name as the customer created in operation 3. For that reason, post operation returns a 409-conflict error.

In console, we can see the following logs:

```

2022-01-10 19:00:57.430 INFO 24484 --- [ctor-http-nio-3] c.n.b.c.b.impl.CustomerServiceImpl : Start of operation to retrieve all customers
2022-01-10 19:00:57.430 INFO 24484 --- [ctor-http-nio-3] c.n.b.c.b.impl.CustomerServiceImpl : Retrieving all customers
2022-01-10 19:00:57.430 INFO 24484 --- [ctor-http-nio-3] c.n.b.c.b.impl.CustomerServiceImpl : All customers retrieved successfully
2022-01-10 19:00:57.430 INFO 24484 --- [ctor-http-nio-3] c.n.b.c.b.impl.CustomerServiceImpl : End of operation to retrieve all customers
2022-01-10 19:00:57.430 INFO 24484 --- [ctor-http-nio-3] c.n.b.c.b.impl.CustomerServiceImpl : End of operation to create a customer
2022-01-10 19:00:57.435 INFO 24484 --- [nioLoopGroup-3-3] c.n.b.c.b.impl.CustomerServiceImpl : Creating new customer: {Customer(id=null, type=Business, status=Active, perso...
2022-01-10 19:00:57.435 INFO 24484 --- [nioLoopGroup-3-3] c.n.b.c.b.impl.CustomerServiceImpl : New customer was created successfully
2022-01-10 19:08:46.646 INFO 24484 --- [ctor-http-nio-3] c.n.b.c.b.impl.CustomerServiceImpl : Post operation in /customers
2022-01-10 19:08:46.646 INFO 24484 --- [ctor-http-nio-3] c.n.b.c.b.impl.CustomerServiceImpl : Start of operation to create a customer
2022-01-10 19:08:46.647 INFO 24484 --- [ctor-http-nio-3] c.n.b.c.b.impl.CustomerServiceImpl : Validating customer uniqueness
2022-01-10 19:08:46.647 INFO 24484 --- [ctor-http-nio-3] c.n.b.c.b.impl.CustomerServiceImpl : Start of operation to retrieve all customers
2022-01-10 19:08:46.647 INFO 24484 --- [ctor-http-nio-3] c.n.b.c.b.impl.CustomerServiceImpl : Retrieving all customers
2022-01-10 19:08:46.648 INFO 24484 --- [ctor-http-nio-3] c.n.b.c.b.impl.CustomerServiceImpl : All customers retrieved successfully
2022-01-10 19:08:46.648 INFO 24484 --- [ctor-http-nio-3] c.n.b.c.b.impl.CustomerServiceImpl : End of operation to retrieve all customers
2022-01-10 19:08:46.648 INFO 24484 --- [nioLoopGroup-3-3] c.n.b.c.b.impl.CustomerServiceImpl : End of operation to create a customer
2022-01-10 19:08:46.657 INFO 24484 --- [nioLoopGroup-3-3] c.n.b.c.b.impl.CustomerServiceImpl : Customer does not accomplish with uniqueness specifications
2022-01-10 19:08:46.658 WARN 24484 --- [nioLoopGroup-3-3] c.n.b.c.b.impl.CustomerServiceImpl : Proceeding to abort create operation
2022-01-10 19:17:42.579 INFO 24484 --- [ctor-http-nio-3] c.n.b.c.b.impl.CustomerController : Post operation in /customers
2022-01-10 19:17:42.580 INFO 24484 --- [ctor-http-nio-3] c.n.b.c.b.impl.CustomerServiceImpl : Start of operation to create a customer
2022-01-10 19:17:42.580 INFO 24484 --- [ctor-http-nio-3] c.n.b.c.b.impl.CustomerServiceImpl : Validating customer uniqueness
2022-01-10 19:17:42.580 INFO 24484 --- [ctor-http-nio-3] c.n.b.c.b.impl.CustomerServiceImpl : Start of operation to retrieve all customers
2022-01-10 19:17:42.580 INFO 24484 --- [ctor-http-nio-3] c.n.b.c.b.impl.CustomerServiceImpl : Retrieving all customers
2022-01-10 19:17:42.581 INFO 24484 --- [ctor-http-nio-3] c.n.b.c.b.impl.CustomerServiceImpl : All customers retrieved successfully
2022-01-10 19:17:42.581 INFO 24484 --- [ctor-http-nio-3] c.n.b.c.b.impl.CustomerServiceImpl : End of operation to retrieve all customers
2022-01-10 19:17:42.581 INFO 24484 --- [ctor-http-nio-3] c.n.b.c.b.impl.CustomerServiceImpl : End of operation to create a customer
2022-01-10 19:17:42.586 WARN 24484 --- [nioLoopGroup-3-3] c.n.b.c.b.impl.CustomerServiceImpl : Customer does not accomplish with uniqueness specifications
2022-01-10 19:17:42.586 WARN 24484 --- [nioLoopGroup-3-3] c.n.b.c.b.impl.CustomerServiceImpl : Proceeding to abort create operation

```

5. Post new business customer with error: duplicated ruc field:

As it can be seen, the customer to create have the same RUC as the customer created in operation 3. For that reason, post operation returns a 409-conflict error.

customer-info-service / Post new business customer with error: duplicated ruc field

POST localhost:8081/api/v1/customers

Params Authorization Headers (9) Body Pre-request Script Tests Settings

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```

1 {
2   "type": "Business",
3   "status": "Active",
4   "businessDetails": {
5     "name": "Empresa SAC",
6     "ruc": "20074563347",
7     "address": {
8       "number": 881,
9       "street": "Jr. Puno",
10      "city": "Lima",
11    }
12  }
13}

```

Body Cookies Headers (1) Test Results

Pretty Raw Preview Visualize Text

Status: 409 Conflict Time: 17 ms Size: 44 B Save Response

In console, we can see the following logs:

```

2022-01-10 19:08:46,647 INFO 24484 --- [ctor-http-nio-3] c.n.b.c.b.impl.CustomerServiceImpl : Start of operation to retrieve all customers
2022-01-10 19:08:46,647 INFO 24484 --- [ctor-http-nio-3] c.n.b.c.b.impl.CustomerServiceImpl : Retrieving all customers
2022-01-10 19:08:46,648 INFO 24484 --- [ctor-http-nio-3] c.n.b.c.b.impl.CustomerServiceImpl : All customers retrieved successfully
2022-01-10 19:08:46,648 INFO 24484 --- [ctor-http-nio-3] c.n.b.c.b.impl.CustomerServiceImpl : End of operation to retrieve all customers
2022-01-10 19:08:46,648 INFO 24484 --- [ctor-http-nio-3] c.n.b.c.b.impl.CustomerServiceImpl : Start of operation to create a customer
2022-01-10 19:08:46,657 WARN 24484 --- [nioLoopGroup-3-3] c.n.b.c.b.impl.CustomerServiceImpl : Customer does not accomplish with uniqueness specifications
2022-01-10 19:08:46,657 WARN 24484 --- [nioLoopGroup-3-3] c.n.b.c.b.impl.CustomerServiceImpl : Proceeding to abort create operation
2022-01-10 19:17:42,579 INFO 24484 --- [ctor-http-nio-3] c.n.b.c.b.impl.CustomerController : Post operation in /customers
2022-01-10 19:17:42,579 INFO 24484 --- [ctor-http-nio-3] c.n.b.c.b.impl.CustomerController : Start of operation to create a customer
2022-01-10 19:17:42,580 INFO 24484 --- [ctor-http-nio-3] c.n.b.c.b.impl.CustomerServiceImpl : Validating customer uniqueness
2022-01-10 19:17:42,580 INFO 24484 --- [ctor-http-nio-3] c.n.b.c.b.impl.CustomerServiceImpl : Start of operation to retrieve all customers
2022-01-10 19:17:42,581 INFO 24484 --- [ctor-http-nio-3] c.n.b.c.b.impl.CustomerServiceImpl : Retrieving all customers
2022-01-10 19:17:42,581 INFO 24484 --- [ctor-http-nio-3] c.n.b.c.b.impl.CustomerServiceImpl : All customers retrieved successfully
2022-01-10 19:17:42,581 INFO 24484 --- [ctor-http-nio-3] c.n.b.c.b.impl.CustomerServiceImpl : End of operation to retrieve all customers
2022-01-10 19:17:42,583 INFO 24484 --- [ctor-http-nio-3] c.n.b.c.b.impl.CustomerServiceImpl : Start of operation to create a customer
2022-01-10 19:17:42,586 WARN 24484 --- [nioLoopGroup-3-3] c.n.b.c.b.impl.CustomerServiceImpl : Customer does not accomplish with uniqueness specifications
2022-01-10 19:17:42,586 WARN 24484 --- [nioLoopGroup-3-3] c.n.b.c.b.impl.CustomerServiceImpl : Proceeding to abort create operation
2022-01-10 19:42:35,074 INFO 24484 --- [ctor-http-nio-3] c.n.b.c.b.impl.CustomerController : Post operation in /customers
2022-01-10 19:42:35,074 INFO 24484 --- [ctor-http-nio-3] c.n.b.c.b.impl.CustomerController : Start of operation to create a customer
2022-01-10 19:42:35,075 INFO 24484 --- [ctor-http-nio-3] c.n.b.c.b.impl.CustomerServiceImpl : Validating customer uniqueness
2022-01-10 19:42:35,075 INFO 24484 --- [ctor-http-nio-3] c.n.b.c.b.impl.CustomerServiceImpl : Start of operation to retrieve all customers
2022-01-10 19:42:35,075 INFO 24484 --- [ctor-http-nio-3] c.n.b.c.b.impl.CustomerServiceImpl : Retrieving all customers
2022-01-10 19:42:35,076 INFO 24484 --- [ctor-http-nio-3] c.n.b.c.b.impl.CustomerServiceImpl : All customers retrieved successfully
2022-01-10 19:42:35,076 INFO 24484 --- [ctor-http-nio-3] c.n.b.c.b.impl.CustomerServiceImpl : End of operation to retrieve all customers
2022-01-10 19:42:35,076 INFO 24484 --- [ctor-http-nio-3] c.n.b.c.b.impl.CustomerServiceImpl : Start of operation to create a customer
2022-01-10 19:42:35,084 WARN 24484 --- [nioLoopGroup-3-3] c.n.b.c.b.impl.CustomerServiceImpl : Customer does not accomplish with uniqueness specifications
2022-01-10 19:42:35,085 WARN 24484 --- [nioLoopGroup-3-3] c.n.b.c.b.impl.CustomerServiceImpl : Proceeding to abort create operation

```

6. Get all customers:

customer-info-service / Get all customers

GET localhost:8081/api/v1/customers

Params Authorization Headers (7) Body Pre-request Script Tests Settings

Query Params

KEY	VALUE	DESCRIPTION

Body Cookies Headers (2) Test Results

Pretty Raw Preview Visualize JSON

```

1 [
2   {
3     "id": "61cc588fb2e3495cb42613",
4     "type": "Personal",
5     "status": "Active",
6     "personDetails": {
7       "name": "Luis",
8       "lastname": "Mendoza",
9       "identityNumber": "74145236",
10      "address": {
11        "number": 144,
12        "street": "Av. Ricardo Palma",
13        "city": "Cozco",
14        "country": "Peru"
15      },
16      "email": "luis.mendoza@gmail.com",
17      "phoneNumber": "+965874125",
18      "mobileNumber": "9478584",
19      "birthdate": "1998-10-30T00:00:00+00:00"
20    }
21  }
22]

```

Find and Replace Console

Status: 200 OK Time: 31 ms Size: 124 KB Save Response

7. Get customer by id:

```

customer-info-service / Get customer by id
GET      localhost:8081/api/v1/customers/61dcc8b9ff2e3495cb42614
Params   Authorization   Headers (7)   Body   Pre-request Script   Tests   Settings
Body   Cookies   Headers (2)   Test Results
Pretty   Raw   Preview   Visualize   JSON
1  [
2    "id": "61dcc8b9ff2e3495cb42614",
3    "type": "Business",
4    "status": "Active",
5    "personDetails": null,
6    "businessDetails": {
7      "name": "Ficticios SAC",
8      "ruc": "20874563347",
9      "address": {
10        "number": 10,
11        "street": "Jr. Comercio",
12        "city": "Lima",
13        "country": "Peru"
14      },
15      "representatives": [
16        {
17          "name": "Maria",
18          "lastname": "Alvarado",
19          "identityNumber": "45548966",
20          "address": {
21            "number": 123,
22            "street": "Camino Real",
23            "city": "Lima",
24            "country": "Peru"
25        }
26      ]
27    }
28  ]

```

Find and Replace Console Capture Requests Bootcamp Runner Trash

8. Put customer without error:

Updated status and name from the business account created in operation 3.

```

customer-info-service / Put account without error
PUT      localhost:8081/api/v1/customers
Params   Authorization   Headers (9)   Body   Pre-request Script   Tests   Settings
None   Form-data   x-www-form-urlencoded   raw   binary   GraphQL   JSON
1  [
2    "id": "61dcc8b9ff2e3495cb42614",
3    "type": "Business",
4    "status": "Blocked",
5    "businessDetails": {
6      "name": "Empresa SAC",
7      "ruc": "20874563347",
8      "address": {
9        "number": 10,
10       "street": "Jr. Comercio",
11     }
12   }
13 ]

```

Find and Replace Console Status: 200 OK Time: 55 ms Size: 873 B Save Response

This operation also validates name and ruc uniqueness for business accounts and identityNumber uniqueness for personal accounts.

9. Put customer with error: customer not found:

Customer was not found, so a 404-not-found status was returned.

The screenshot shows a POST request to `localhost:8081/api/v1/customers` with the following JSON body:

```

1  {
2    "id": "any-not-existing-id",
3    "type": "Business",
4    "status": "Blocked",
5    "businessDetails": {
6      "name": "Empresa SAC",
7      "ruc": "20874563347",
8      "address": {
9        "number": 10,
10       "street": "Jr. Comercio",

```

The response status is 404 Not Found, indicating the customer was not found.

In console, we can see the following logs:

The log output shows several INFO messages from the `CustomerServiceImpl` class, indicating various operations like updates, retrievals, and validations. One message specifically handles the deletion of a non-existent customer:

```

2022-01-10 20:14:21.223 [INFO] [nlooopGroup-3-3] c.n.b.c.b.impl.CustomerServiceImpl : Customer with id: [any-not-existing-id] does not exist in database
2022-01-10 20:14:21.223 [INFO] [nlooopGroup-3-3] c.n.b.c.b.impl.CustomerServiceImpl : Proceeding to abort update operation

```

10. Delete customer without error:

The screenshot shows a DELETE request to `localhost:8081/api/v1/customers/61dcadad8ffbe3495cb42615` with the following JSON body:

```

1  {
2    "id": "61dcadad8ffbe3495cb42615",
3    "type": "Business",
4    "status": "Active",
5    "personnelList": null,
6    "businessDetails": {
7      "name": "Empresa SAC",
8      "ruc": "58841236112",
9      "address": [
10        {
11          "number": 881,
12          "street": "Jr. Puno",
13          "city": "Lima",
14          "country": "Peru"
15        },
16        "representatives": [
17          {
18            "name": "Maria",
19            "lastname": "Alvarado",
20            "identityNumber": "45548966",
21            "address": [
22              {
23                "number": 123,
24                "street": "Camino Real",
25                "city": "Lima",
26                "country": "Peru"

```

The response status is 200 OK, indicating the customer was successfully deleted.

11. Delete customer with error: customer not found:

Customer was not found, so a 404-not-found status was returned.

The screenshot shows a Postman interface with the following details:

- Customer Info Service / Delete customer with error: customer not found**
- DELETE** → **localhost:8081/api/v1/customers/any-not-existing-id**
- Params**, **Authorization**, **Headers (7)**, **Body**, **Pre-request Script**, **Tests**, **Settings**
- Body** tab selected, showing "Pretty" view with a single character "1".
- Send** button is blue.
- Status: 404 Not Found Time: 22 ms Size: 45 B Save Response**
- Cookies**, **</>**, **Save**, **Send**, **Find and Replace**, **Console**, **Capture Requests**, **Bootcamp**, **Runner**, **Trash**

PASSIVE-OPERATIONS-SERVICE:

1. Post new personal account without error:

The screenshot shows a Postman interface with the following details:

- passive-operations-service / Post new account without error**
- POST** → **localhost:8082/api/v1/accounts**
- Params**, **Authorization**, **Headers (9)**, **Body** (green dot), **Pre-request Script**, **Tests**, **Settings**
- Body** tab selected, showing JSON code for creating an account. The code includes fields like customerId, accountType, description, maximumNumberOfOperations, allowedDays, issueDate, dueDate, and holders.
- Send** button is blue.
- Status: 201 Created Time: 264 ms Size: 1.09 KB Save Response**
- Cookies**, **</>**, **Find and Replace**, **Console**, **Capture Requests**, **Bootcamp**, **Runner**, **Trash**

2. Post new personal account with error: personal customers can only have one account:

When attempting to create another account for the same customerId of operation 1, we get a 500-internal-server-error response, because personal customers can only have one account.

localhost:8082/api/v1/accounts

POST localhost:8082/api/v1/accounts

Body (JSON)

```
{
  "customerId": "61dcc588fffb2e3495cb42613",
  "accountType": {
    "description": "Savings",
    "maximumNumberOfOperations": 10
  },
  "issueDate": "2020-01-09",
  "dueDate": "2026-01-04",
  "holders": [
    {
      "name": "Mario"
    }
  ]
}
```

Status: 500 Internal Server Error Time: 51 ms Size: 57 B Save Response

In console, we see the following logs:

```

2022-01-10 21:08:22.170 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Retrieving customer
2022-01-10 21:08:22.171 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Customer retrieved successfully
2022-01-10 21:08:22.171 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : End of operation to retrieve customer with id: [61dcc588fffb2e3495cb42613]
2022-01-10 21:08:22.183 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : End of operation to create an account
2022-01-10 21:08:22.183 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Validating account
2022-01-10 21:08:22.184 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Customer exists in database
2022-01-10 21:08:22.184 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Start of operation to retrieve all accounts of the customer with id: [61dcc588fffb2e3495cb42613]
2022-01-10 21:08:22.184 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Retrieving accounts
2022-01-10 21:08:22.184 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Accounts retrieved successfully
2022-01-10 21:08:22.184 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : End of operation to retrieve accounts of the customer with id: [61dcc588fffb2e3495cb42613]
2022-01-10 21:08:22.192 INFO 18728 --- [nioLoopGroup-3-3] c.n.b.p.b.impl.AccountServiceImpl : Account successfully validated
2022-01-10 21:08:22.271 INFO 18728 --- [nioLoopGroup-3-3] c.n.b.p.b.impl.AccountServiceImpl : Creating new account: [Account{id=null, status=Active, customer=Customer(id=6
2022-01-10 21:08:37.488 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.expose.AccountController : Post operation in /accounts
2022-01-10 21:08:37.489 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Start of operation to create an account
2022-01-10 21:08:37.489 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Start of operation to retrieve customer with id [61dcc588fffb2e3495cb42613] fr
2022-01-10 21:08:37.489 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Retrieving customer
2022-01-10 21:08:37.490 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Customer retrieved successfully
2022-01-10 21:08:37.490 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : End of operation to retrieve customer with id: [61dcc588fffb2e3495cb42613]
2022-01-10 21:08:37.491 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : End of operation to create an account
2022-01-10 21:08:37.507 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Validating account
2022-01-10 21:08:37.508 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Customer exists in database
2022-01-10 21:08:37.508 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Start of operation to retrieve all accounts of the customer with id: [61dcc588fffb2e3495cb42613]
2022-01-10 21:08:37.508 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Retrieving accounts
2022-01-10 21:08:37.509 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Accounts retrieved successfully
2022-01-10 21:08:37.509 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : End of operation to retrieve accounts of the customer with id: [61dcc588fffb2e3495cb42613]
2022-01-10 21:08:37.531 WARN 18728 --- [nioLoopGroup-3-3] c.n.b.p.b.impl.AccountServiceImpl : Can not create more than one account for a personal customer
2022-01-10 21:08:37.531 WARN 18728 --- [nioLoopGroup-3-3] c.n.b.p.b.impl.AccountServiceImpl : Proceeding to abort create account

```

3. Post new business account without error:

passive-operations-service / Post new business account without errors

POST localhost:8082/api/v1/accounts

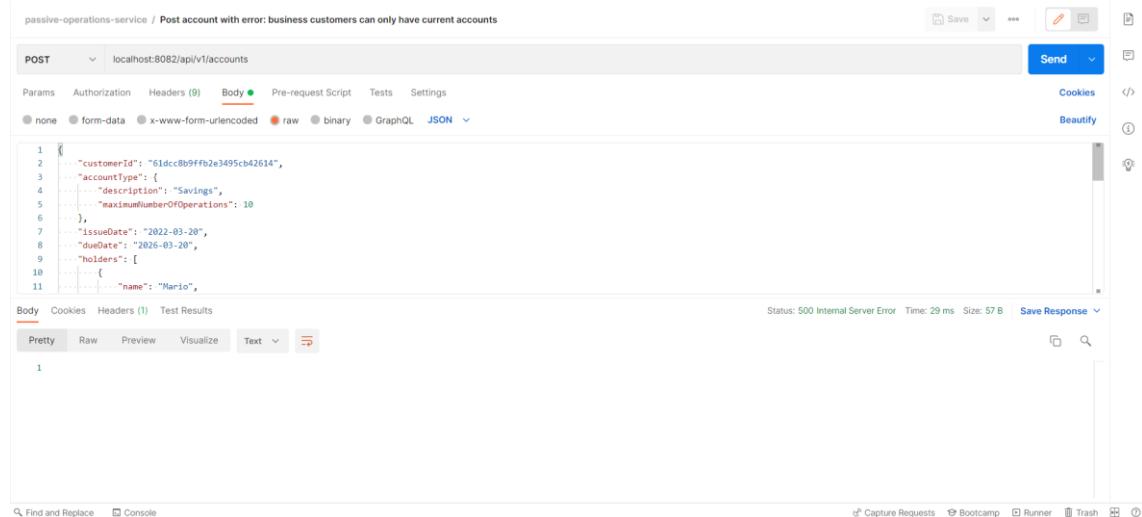
Body (JSON)

```
{
  "customerId": "61dcc8b9fffb2e3495cb42614",
  "accountType": {
    "description": "Current",
    "commission": 20
  },
  "issueDate": "2022-03-20",
  "dueDate": "2026-03-20",
  "holders": [
    {
      "name": "Mario"
    }
  ]
}
```

Status: 201 Created Time: 33 ms Size: 1.09 KB Save Response

4. Post new business account with error: business customers can only have current accounts:

When attempting to create a non-current account for a business customer, we get a 500-internal-server-error response, because business customers can only have current accounts.



In console, we see the following logs:

```

2022-01-10 21:08:37.508 INFO 18728 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Retrieving accounts
2022-01-10 21:08:37.509 INFO 18728 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Accounts retrieved successfully
2022-01-10 21:08:37.511 INFO 18728 --- [nioLoopGroup-3-3] c.n.b.p.b.impl.AccountServiceImpl : End of operation to retrieve accounts of the customer with id: [61dcc8b9fffb2e3495cb42614]
2022-01-10 21:08:37.531 WARN 18728 --- [nioLoopGroup-3-3] c.n.b.p.b.impl.AccountServiceImpl : Can not create more than one account for a personal customer
2022-01-10 21:08:37.531 WARN 18728 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Proceeding to abort create account
2022-01-10 21:16:33.497 INFO 18728 --- [ctor-http-nio-3] c.n.b.p.b.expose.AccountController : Post operation in /accounts
2022-01-10 21:16:33.498 INFO 18728 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Start of operation to create an account
2022-01-10 21:16:33.499 INFO 18728 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Start of operation to retrieve customer with id [61dcc8b9fffb2e3495cb42614] from database
2022-01-10 21:16:33.500 INFO 18728 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Retrieving customer
2022-01-10 21:16:33.501 INFO 18728 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Customer retrieved successfully
2022-01-10 21:16:33.501 INFO 18728 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : End of operation to retrieve customer with id: [61dcc8b9fffb2e3495cb42614]
2022-01-10 21:16:33.501 INFO 18728 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : End of operation to create an account
2022-01-10 21:16:33.518 INFO 18728 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Validating account
2022-01-10 21:16:33.518 INFO 18728 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Customer exists in database
2022-01-10 21:16:33.519 INFO 18728 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Account successfully validated
2022-01-10 21:16:33.519 INFO 18728 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Creating new account: [Account{id=null, status=Active, customer=Customer{id=61dcc8b9fffb2e3495cb42614}}]
2022-01-10 21:19:28.271 INFO 18728 --- [ctor-http-nio-3] c.n.b.p.b.expose.AccountController : Post operation in /accounts
2022-01-10 21:19:28.271 INFO 18728 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Start of operation to create an account
2022-01-10 21:19:28.272 INFO 18728 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Start of operation to retrieve customer with id [61dcc8b9fffb2e3495cb42614] from database
2022-01-10 21:19:28.272 INFO 18728 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Retrieving customer
2022-01-10 21:19:28.273 INFO 18728 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Customer retrieved successfully
2022-01-10 21:19:28.273 INFO 18728 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : End of operation to retrieve customer with id: [61dcc8b9fffb2e3495cb42614]
2022-01-10 21:19:28.273 INFO 18728 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : End of operation to create an account
2022-01-10 21:19:28.283 INFO 18728 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Validating account
2022-01-10 21:19:28.284 INFO 18728 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Customer exists in database
2022-01-10 21:19:28.285 WARN 18728 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Can not create Savings account for business customers. Accounts must be of type Current
2022-01-10 21:19:28.286 WARN 18728 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Proceeding to abort create account

```

5. Post new account with error: customers cannot create accounts when they have locked status:

When attempting to create an account for a blocked customer, we get a 423-locked response.

```

POST /accounts
{
  "customerId": "61dcc8b9fffb2e3495cb42614",
  "accountType": {
    "description": "Current",
    "commission": 20
  },
  "issueDate": "2022-03-20",
  "dueDate": "2026-03-20",
  "holders": [
    {
      "name": "Mario"
    }
  ]
}

```

Status: 423 Locked Time: 37 ms Size: 42 B Save Response

In console, we get the following logs:

```

2022-01-10 21:16:33.501 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : End of operation to create an account
2022-01-10 21:16:33.518 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Validating account
2022-01-10 21:16:33.518 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Customer exists in database
2022-01-10 21:16:33.519 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Account successfully validated
2022-01-10 21:16:33.519 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Creating new account: [AccountId=null, status=Active, customer=Customer(id=61dcc8b9fffb2e3495cb42614)]
2022-01-10 21:19:28.271 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountController : Post operation in /accounts
2022-01-10 21:19:28.271 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Start of operation to create an account
2022-01-10 21:19:28.271 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Start of operation to retrieve customer with id [61dcc8b9fffb2e3495cb42614]
2022-01-10 21:19:28.271 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Retrieving customer
2022-01-10 21:19:28.273 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Customer retrieved successfully
2022-01-10 21:19:28.273 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : End of operation to retrieve customer with id: [61dcc8b9fffb2e3495cb42614]
2022-01-10 21:19:28.273 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : End of operation to create an account
2022-01-10 21:19:28.283 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Validating account
2022-01-10 21:19:28.284 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Customer exists in database
2022-01-10 21:19:28.285 WARN 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Can not create Savings account for business customers. Accounts must be of cu
2022-01-10 21:19:28.286 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Proceeding to abort create account
2022-01-10 21:23:57.097 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountController : Post operation in /accounts
2022-01-10 21:23:57.098 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Start of operation to create an account
2022-01-10 21:23:57.098 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Start of operation to retrieve customer with id [61dcc8b9fffb2e3495cb42614]
2022-01-10 21:23:57.098 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Retrieving customer
2022-01-10 21:23:57.099 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Customer retrieved successfully
2022-01-10 21:23:57.099 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : End of operation to retrieve customer with id: [61dcc8b9fffb2e3495cb42614]
2022-01-10 21:23:57.099 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : End of operation to create an account
2022-01-10 21:23:57.127 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Validating account
2022-01-10 21:23:57.127 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Customer exists in database
2022-01-10 21:23:57.128 WARN 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Customer have blocked status
2022-01-10 21:23:57.128 WARN 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Proceeding to abort create account

```

6. Post new account with error: account does not have holders

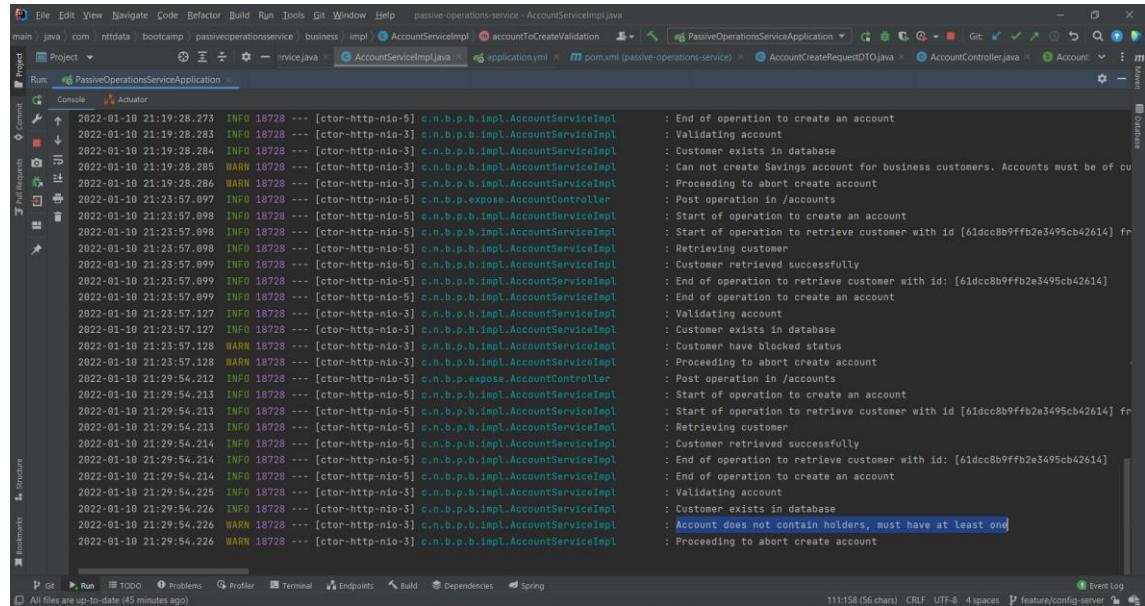
```

POST /accounts
{
  "customerId": "61dcc8b9fffb2e3495cb42614",
  "accountType": {
    "description": "Current",
    "commission": 20
  },
  "issueDate": "2022-03-20",
  "dueDate": "2026-03-20",
  "holders": [
    {
      "name": "String",
      ...
    }
  ]
}

```

Status: 400 Bad Request Time: 26 ms Size: 47 B Save Response

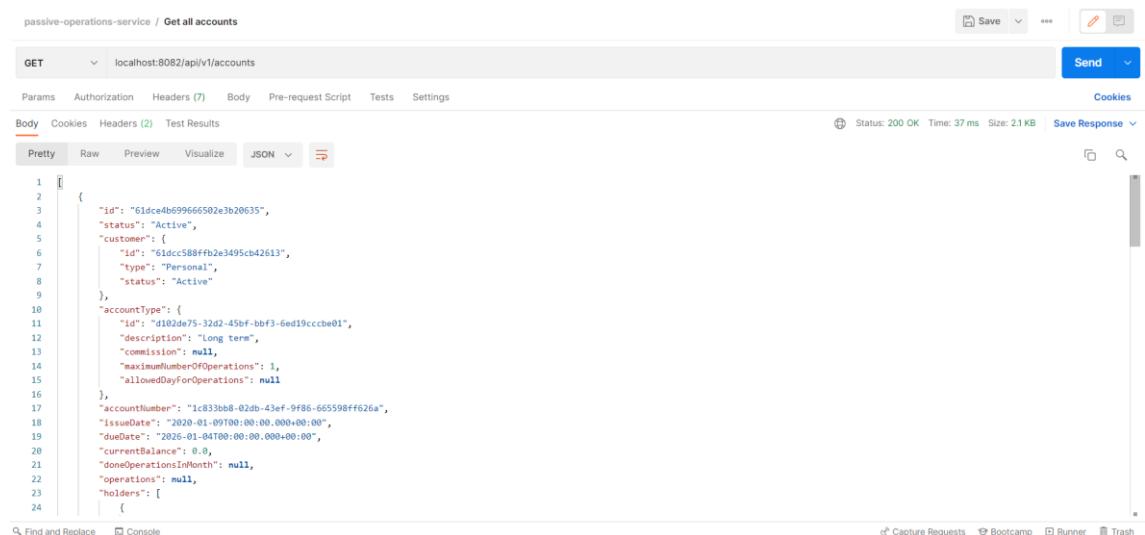
In console, we see the following logs:



The screenshot shows a Java IDE interface with a terminal window displaying log messages. The logs are from the `AccountServiceImpl` class, showing various operations like account creation, validation, and retrieval. The log entries are timestamped and include details about the operation, the account type, and customer information.

```
2022-01-10 21:19:28.273 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : End of operation to create an account
2022-01-10 21:19:28.283 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Validating account
2022-01-10 21:19:28.284 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Customer exists in database
2022-01-10 21:19:28.285 WARN 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Can not create Savings account for business customers. Accounts must be of cu
2022-01-10 21:19:28.286 WARN 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Proceeding to abort create account
2022-01-10 21:23:57.097 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.expose.AccountController : Post operation in /accounts
2022-01-10 21:23:57.098 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Start of operation to create an account
2022-01-10 21:23:57.098 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Start of operation to retrieve customer with id [61dcc8b9ffb2e3495cb42614]
2022-01-10 21:23:57.098 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Retrieving customer
2022-01-10 21:23:57.099 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Customer retrieved successfully
2022-01-10 21:23:57.099 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : End of operation to retrieve customer with id: [61dcc8b9ffb2e3495cb42614]
2022-01-10 21:23:57.099 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : End of operation to create an account
2022-01-10 21:23:57.127 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Validating account
2022-01-10 21:23:57.127 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Customer exists in database
2022-01-10 21:23:57.128 WARN 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Customer have blocked status
2022-01-10 21:23:57.128 WARN 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Proceeding to abort create account
2022-01-10 21:29:54.212 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.expose.AccountController : Post operation in /accounts
2022-01-10 21:29:54.213 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Start of operation to create an account
2022-01-10 21:29:54.213 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Start of operation to retrieve customer with id [61dcc8b9ffb2e3495cb42614]
2022-01-10 21:29:54.213 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Retrieving customer
2022-01-10 21:29:54.214 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Customer retrieved successfully
2022-01-10 21:29:54.214 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : End of operation to retrieve customer with id: [61dcc8b9ffb2e3495cb42614]
2022-01-10 21:29:54.214 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : End of operation to create an account
2022-01-10 21:29:54.226 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Validating account
2022-01-10 21:29:54.226 WARN 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Account does not contain holders, must have at least one
2022-01-10 21:29:54.226 WARN 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Proceeding to abort create account
```

7. Get all accounts:



The screenshot shows a Postman API request for the endpoint `/api/v1/accounts`. The response is a JSON object containing account details, including the account ID, status, customer information, account type, and account number.

```
1 [
2   {
3     "id": "61dceab699666502e3b20635",
4     "status": "Active",
5     "customer": {
6       "id": "61dcc58ffbf2e3495cb42613",
7       "type": "Personal",
8       "status": "Active"
9     },
10    "accountType": {
11      "id": "d102de75-32d2-45bf-bbf3-6ed19ccbe01",
12      "description": "Long term",
13      "commission": null,
14      "maximumNumberOfOperations": 1,
15      "allowedDayForOperations": null
16    },
17    "accountNumber": "1c833bbb-02db-43ef-9f86-665598ff626a",
18    "issueDate": "2020-01-04T00:00:00.000+00:00",
19    "dueDate": "2026-01-04T00:00:00.000+00:00",
20    "currentBalance": 0.0,
21    "doneOperationsInMonth": null,
22    "operations": null,
23    "holders": [
24      {
25        "name": "John Doe"
26      }
27    ]
28  }
29]
```

8. Get account by id:

passive-operations-service / Get all accounts

GET localhost:8082/api/v1/accounts/61dce4b699666502e3b20635

Params Authorization Headers (7) Body Pre-request Script Tests Settings

Body Cookies Headers (2) Test Results

Pretty Raw Preview Visualize JSON

```

1 [
2   {
3     "id": "61dce4b699666502e3b20635",
4     "status": "Active",
5     "customer": {
6       "id": "61dcc588fffb2e3495cb42613",
7       "type": "Personal",
8       "status": "Active"
9     },
10    "accountType": {
11      "id": "d192de75-32d2-45bf-bbf3-6ed19ccbe01",
12      "description": "Long term",
13      "commission": null,
14      "maximumNumberOfOperations": 1,
15      "allowedDaysForOperations": null
16    },
17    "accountNumber": "1c833bb8-02db-43ef-9f86-665598ff626a",
18    "issueDate": "2020-01-09T00:00:00.000+00:00",
19    "dueDate": "2026-01-04T00:00:00.000+00:00",
20    "currentBalance": 0.0,
21    "doneOperationsInMonth": null,
22    "operations": null,
23    "holders": [
24      {
25        "name": "Mario",
26      }
27    ]
28  }
29 ]

```

Find and Replace Console

Capture Requests Bootcamp Runner Trash

9. Put account without error:

passive-operations-service / Put account without errors

PUT localhost:8082/api/v1/accounts

Params Authorization Headers (9) **Body** Pre-request Script Tests Settings

none form-data x-www-form-urlencoded raw binary GraphQL JSON

Pretty Raw Preview Visualize JSON

```

1 [
2   {
3     "id": "61dce4b699666502e3b20635",
4     "status": "Blocked",
5     "dueDate": "2026-01-04",
6     "currentBalance": 0.0,
7     "doneOperationsInMonth": null,
8     "operations": null,
9     "holders": [
10       {
11         "name": "Mario",
12         "lastname": "Araujo",
13         "identityNumber": "88554461",
14       }
15     ]
16   }
17 ]

```

Find and Replace Console

Capture Requests Bootcamp Runner Trash

10. Put account with error: not found account:

Account was not found, so a 404-not-found status was returned.

passive-operations-service / Put account with errors: not found account

PUT localhost:8082/api/v1/accounts

Params Authorization Headers (9) **Body** Pre-request Script Tests Settings

none form-data x-www-form-urlencoded raw binary GraphQL JSON

Pretty Raw Preview Visualize Text

```

1 [
2   {
3     "id": "any-not-existing-id",
4     "status": "Blocked",
5     "dueDate": "2026-01-04",
6     "currentBalance": 0.0,
7     "doneOperationsInMonth": null,
8     "operations": null,
9     "holders": [
10       {
11         "name": "Mario",
12         "lastname": "Araujo",
13         "identityNumber": "88554461",
14       }
15     ]
16   }
17 ]

```

Find and Replace Console

Capture Requests Bootcamp Runner Trash

11. Put account with error: account does not have holders:

Account does not contain holders, it must contain at least one, so we get a 400-bad-request status.

The screenshot shows a POST request to `localhost:8082/api/v1/accounts`. The JSON body is:

```

1 {
2   "id": "61dce4b699666502e3b20635",
3   "status": "Blocked",
4   "dueDate": "2026-01-04",
5   "currentBalance": 0.0,
6   "doneOperationsInMonth": null,
7   "operations": null,
8   "signers": [
9     {
10       "name": "String",
11       "lastName": "String",
12       "identityNumber": "String",
13     }
14   ]
15 }

```

The response status is 400 Bad Request.

In console, we see the following logs:

```

2022-01-10 21:46:52.667 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Retrieving account with id: [61dce4b699666502e3b20635]
2022-01-10 21:46:52.667 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Account with id: [61dce4b699666502e3b20635] was retrieved successfully
2022-01-10 21:46:52.667 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : End of operation to find an account by id
2022-01-10 21:46:52.668 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : End of operation to update an account
2022-01-10 21:46:52.670 INFO 18728 --- [nioLoopGroup-3-3] c.n.b.p.b.impl.AccountServiceImpl : Validating account
2022-01-10 21:46:52.671 INFO 18728 --- [nioLoopGroup-3-3] c.n.b.p.b.impl.AccountServiceImpl : Account exists in database
2022-01-10 21:46:52.672 INFO 18728 --- [nioLoopGroup-3-3] c.n.b.p.b.impl.AccountServiceImpl : Account successfully validated
2022-01-10 21:46:52.673 INFO 18728 --- [nioLoopGroup-3-3] c.n.b.p.b.impl.AccountServiceImpl : Updating account: [Account{id=61dce4b699666502e3b20635, status=Active, custom]
2022-01-10 21:46:52.674 INFO 18728 --- [nioLoopGroup-3-3] c.n.b.p.b.impl.AccountServiceImpl : Account with id: [61dce4b699666502e3b20635] was successfully updated
2022-01-10 21:47:43.175 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.expose.AccountController : Put operation in /accounts
2022-01-10 21:47:43.176 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Start of operation to update an account
2022-01-10 21:47:43.176 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Start of operation to find an account by id
2022-01-10 21:47:43.176 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Retrieving account with id: [any-not-existing-id]
2022-01-10 21:47:43.177 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Account with id: [any-not-existing-id] was retrieved successfully
2022-01-10 21:47:43.177 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : End of operation to find an account by id
2022-01-10 21:47:43.177 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : End of operation to update an account
2022-01-10 21:47:43.180 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.expose.AccountController : Put operation in /accounts
2022-01-10 21:52:22.200 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Start of operation to update an account
2022-01-10 21:52:22.202 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Start of operation to find an account by id
2022-01-10 21:52:22.203 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Retrieving account with id: [61dce4b699666502e3b20635]
2022-01-10 21:52:22.203 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Account with id: [61dce4b699666502e3b20635] was retrieved successfully
2022-01-10 21:52:22.205 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : End of operation to find an account by id
2022-01-10 21:52:22.205 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : End of operation to update an account
2022-01-10 21:52:22.210 INFO 18728 --- [nioLoopGroup-3-3] c.n.b.p.b.impl.AccountServiceImpl : Validating account
2022-01-10 21:52:22.210 INFO 18728 --- [nioLoopGroup-3-3] c.n.b.p.b.impl.AccountServiceImpl : Account exists in database
2022-01-10 21:52:22.210 WARN 18728 --- [nioLoopGroup-3-3] c.n.b.p.b.impl.AccountServiceImpl : Account does not contain holders, must have at least one
2022-01-10 21:52:22.211 WARN 18728 --- [nioLoopGroup-3-3] c.n.b.p.b.impl.AccountServiceImpl : Proceeding to abort update account

```

12. Delete account without error:

```

1 {
2   "id": "61dcf1979966502e3b20637",
3   "status": "Active",
4   "customer": {
5     "id": "61dcc8b9fffb2e3495cb42614",
6     "type": "Business",
7     "status": "Active"
8   },
9   "accountType": {
10    "id": "c67de554-eb4b-4511-a417-2989fe00104b",
11    "description": "Current",
12    "commission": 20.0,
13    "maximumNumberOfOperations": null,
14    "allowedDayForOperations": null
15  },
16  "accountNumber": "bd4b3891-a03b-4793-94b8-78604fc8c5d",
17  "issueDate": "2022-03-20T00:00:00.000+00:00",
18  "dueDate": "2026-03-20T00:00:00.000+00:00",
19  "currentBalance": 0.0,
20  "doneOperationsInMonth": null,
21  "operations": null,
22  "holders": [
23    {
24      "name": "Mario",
25    }
26  ]
27}

```

13. Delete account with error: account not found:

Account was not found, so a 404-not-found status was returned.

```

1

```

14. Get accounts by customer id:

```

1 [
2   {
3     "id": "61dcf1979966502e3b20637",
4     "status": "Active",
5     "customer": {
6       "id": "61dcc8b9fffb2e3495cb42614",
7       "type": "Business",
8       "status": "Active"
9     },
10    "accountType": {
11      "id": "c67de554-eb4b-4511-a417-2989fe00104b",
12      "description": "Current",
13      "commission": 20.0,
14      "maximumNumberOfOperations": null,
15      "allowedDayForOperations": null
16    },
17    "accountNumber": "bd4b3891-a03b-4793-94b8-78604fc8c5d",
18    "issueDate": "2022-03-20T00:00:00.000+00:00",
19    "dueDate": "2026-03-20T00:00:00.000+00:00",
20    "currentBalance": 0.0,
21    "doneOperationsInMonth": null,
22    "operations": null,
23    "holders": [
24      {
25        "name": "Mario",
26      }
27    ]
28  }
29]

```

15. Post do operation without error:

The screenshot shows a Postman interface with the following details:

- Request URL:** localhost:8082/api/v1/accounts/operations
- Method:** POST
- Body (JSON):**

```

1 {
2   ...
3   "id": "61dce88199666502e3b20636",
4   ...
5   "operation": {
6     ...
7     "type": "Deposit",
8     ...
9     "amount": 250.00
10    ...
11  }
12 }

```

- Response Status:** 201 Created
- Response Time:** 396 ms
- Response Size:** 1.21 KB

16. Post do operation with error: account has insufficient funds:

A customer cannot withdraw an amount greater than its current balance. If it attempts to do so, then an status 400-bad-request is returned.

The screenshot shows a Postman interface with the following details:

- Request URL:** localhost:8082/api/v1/accounts/operations
- Method:** POST
- Body (JSON):**

```

1 {
2   ...
3   "id": "61dce88199666502e3b20636",
4   ...
5   "operation": {
6     ...
7     "type": "Withdrawal",
8     ...
9     "amount": 1200.00
10    ...
11  }
12 }

```

- Response Status:** 400 Bad Request
- Response Time:** 12 ms
- Response Size:** 47 B

In console, we can see the following logs:

```

2022-01-11 00:30:33.640 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Start to save a new account operation for the account with id: [61dce881996656502e3b20635]
2022-01-11 00:30:33.641 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : End to save a new account operation for the account with id: [61dce881996656502e3b20635]
2022-01-11 00:30:33.650 INFO 18728 --- [nioLoopGroup-3-3] c.n.b.p.b.impl.AccountServiceImpl : Validating operation
2022-01-11 00:30:33.650 INFO 18728 --- [nioLoopGroup-3-3] c.n.b.p.b.impl.AccountServiceImpl : Account exists in database
2022-01-11 00:30:33.651 INFO 18728 --- [nioLoopGroup-3-3] c.n.b.p.b.impl.AccountServiceImpl : Operation successfully validated
2022-01-11 00:30:33.651 INFO 18728 --- [nioLoopGroup-3-3] c.n.b.p.b.impl.AccountServiceImpl : Doing deposit of [250.0] to account with id [61dce881996656502e3b20635]
2022-01-11 00:30:33.651 INFO 18728 --- [nioLoopGroup-3-3] c.n.b.p.b.impl.AccountServiceImpl : Saving operation into account: [Account{id=61dce881996656502e3b20635, status=A}]
2022-01-11 00:30:33.652 INFO 18728 --- [nioLoopGroup-3-3] c.n.b.p.b.impl.AccountServiceImpl : Operation was successfully updated
2022-01-11 00:31:04.123 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountController : Put operation in /accounts
2022-01-11 00:31:04.123 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountController : Start of operation to update an account
2022-01-11 00:31:04.123 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountController : Start of operation to find an account by id
2022-01-11 00:31:04.123 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountController : Retrieving account with id: [61dce4b6996656502e3b20635]
2022-01-11 00:31:04.124 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountController : Account with id: [61dce4b6996656502e3b20635] was retrieved successfully
2022-01-11 00:31:04.124 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountController : End of operation to find an account by id
2022-01-11 00:31:04.124 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountController : End of operation to update an account
2022-01-11 00:31:04.129 INFO 18728 --- [nioLoopGroup-3-3] c.n.b.p.b.impl.AccountServiceImpl : Validating account
2022-01-11 00:31:04.129 INFO 18728 --- [nioLoopGroup-3-3] c.n.b.p.b.impl.AccountServiceImpl : Account exists in database
2022-01-11 00:31:04.130 INFO 18728 --- [nioLoopGroup-3-3] c.n.b.p.b.impl.AccountServiceImpl : Account successfully validated
2022-01-11 00:31:04.130 INFO 18728 --- [nioLoopGroup-3-3] c.n.b.p.b.impl.AccountServiceImpl : Updating account: [Account{id=61dce4b6996656502e3b20635, status=Active, custom=A}]
2022-01-11 00:31:04.130 INFO 18728 --- [nioLoopGroup-3-3] c.n.b.p.b.impl.AccountServiceImpl : Account with id: [61dce4b6996656502e3b20635] was successfully updated
2022-01-11 00:31:51.203 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountController : Post operation in /accounts/operation
2022-01-11 00:31:51.204 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountController : Start to save a new account operation for the account with id: [61dce881996656502e3b20635]
2022-01-11 00:31:51.204 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountController : End to save a new account operation for the account with id: [61dce881996656502e3b20635]
2022-01-11 00:31:51.207 INFO 18728 --- [nioLoopGroup-3-3] c.n.b.p.b.impl.AccountServiceImpl : Validating operation
2022-01-11 00:31:51.207 INFO 18728 --- [nioLoopGroup-3-3] c.n.b.p.b.impl.AccountServiceImpl : Account exists in database
2022-01-11 00:31:51.208 INFO 18728 --- [nioLoopGroup-3-3] c.n.b.p.b.impl.AccountServiceImpl : Account has insufficient funds
2022-01-11 00:31:51.208 WARN 18728 --- [nioLoopGroup-3-3] c.n.b.p.b.impl.AccountServiceImpl : Proceeding to abort do operation

```

17. Post do operation with error: allowed day for operations does not match current day of the month:

passive-operations-service / Post do operation with error: allowed day for operations does not match current day of the month

POST localhost:8082/api/v1/accounts/operations

Body (9)

```

1 {
2     "id": "61dd176f996656502e3b20635",
3     "operation": {
4         "type": "Deposit",
5         "amount": 200.00
6     }
7 }

```

Status: 500 Internal Server Error Time: 26 ms Size: 57 B Save Response

In console, we can see the following logs:

```

2022-01-11 00:36:25.039 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Retrieving account with id: [61dce4b699666502e3b20635]
2022-01-11 00:36:25.039 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Account with id: [61dce4b699666502e3b20635] was retrieved successfully
2022-01-11 00:36:25.039 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : End of operation to find an account by id
2022-01-11 00:36:25.039 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Account with id: [61dce4b699666502e3b20635] was successfully deleted
2022-01-11 00:36:25.040 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : End of operation to remove a customer
2022-01-11 00:36:47.627 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.expose.AccountController : Post operation in /accounts
2022-01-11 00:36:47.627 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Start of operation to create an account
2022-01-11 00:36:47.627 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Start of operation to retrieve customer with id [61dcc588ffbb2e3495cb42613] fr
2022-01-11 00:36:47.628 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Retrieving customer
2022-01-11 00:36:47.628 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Customer retrieved successfully
2022-01-11 00:36:47.628 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : End of operation to retrieve customer with id: [61dcc588ffbb2e3495cb42613]
2022-01-11 00:36:47.628 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : End of operation to create an account
2022-01-11 00:36:47.630 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Validating account
2022-01-11 00:36:47.630 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Customer exists in database
2022-01-11 00:36:47.755 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Start of operation to retrieve all accounts of the customer with id: [61dcc58
2022-01-11 00:36:47.756 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Retrieving accounts
2022-01-11 00:36:47.756 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Accounts retrieved successfully
2022-01-11 00:36:47.756 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : End of operation to retrieve accounts of the customer with id: [61dcc588ffbb2e
2022-01-11 00:36:47.759 INFO 18728 --- [ntlooopGroup-3-3] c.n.b.p.b.impl.AccountServiceImpl : Account successfully validated
2022-01-11 00:36:47.759 INFO 18728 --- [ntlooopGroup-3-3] c.n.b.p.b.impl.AccountServiceImpl : Creating new account: [AccountId=null, status=Active, customer=Customer(id=6
2022-01-11 00:37:04.895 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.expose.AccountController : Post operation in /accounts/operation
2022-01-11 00:37:04.896 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Start to save a new account operation for the account with id: [61dd176f9966650
2022-01-11 00:37:04.897 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : End to save a new account operation for the account with id: [61dd176f9966650
2022-01-11 00:37:04.902 INFO 18728 --- [ntlooopGroup-3-3] c.n.b.p.b.impl.AccountServiceImpl : Validating operation
2022-01-11 00:37:04.903 INFO 18728 --- [ntlooopGroup-3-3] c.n.b.p.b.impl.AccountServiceImpl : Account exists in database
2022-01-11 00:37:04.904 INFO 18728 --- [ntlooopGroup-3-3] c.n.b.p.b.impl.AccountServiceImpl : Allowed day [10] for operations in this account does not match with current d
2022-01-11 00:37:04.994 WARN 18728 --- [ntlooopGroup-3-3] c.n.b.p.b.impl.AccountServiceImpl : Proceeding to abort do operation

```

18. Post do operation with error: maximum number of operations reached:

passive-operations-service / Post do operation with error: maximum number of operations reached

POST localhost:8082/api/v1/accounts/operations

Params Authorization Headers (9) Body **Pre-request Script** Tests Settings

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```

1 {
2   "id": "61dd176f99666502e3b20639",
3   "operation": {
4     "type": "Deposit",
5     "amount": 200.00
6   }
7 }

```

Body Cookies Headers (1) Test Results

Pretty Raw Preview Visualize Text

Status: 500 Internal Server Error Time: 0 ms Size: 57 B Save Send Cookies Beautify

Find and Replace Console Capture Requests Bootcamp Runner Trash

In console, we can see the following logs:

```

2022-01-11 00:38:39.035 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Customer retrieved successfully
2022-01-11 00:38:39.035 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : End of operation to retrieve customer with id: [61dcc588fffb2e3495cb42613]
2022-01-11 00:38:39.037 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : End of operation to create an account
2022-01-11 00:38:39.062 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Validating account
2022-01-11 00:38:39.063 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Customer exists in database
2022-01-11 00:38:39.063 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Start of operation to retrieve all accounts of the customer with id: [61dcc588fffb2e]
2022-01-11 00:38:39.064 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Retrieving accounts
2022-01-11 00:38:39.064 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Accounts retrieved successfully
2022-01-11 00:38:39.065 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : End of operation to retrieve accounts of the customer with id: [61dcc588fffb2e]
2022-01-11 00:38:39.066 INFO 18728 --- [nnioGroup-3-3] c.n.b.p.b.impl.AccountServiceImpl : Account successfully validated
2022-01-11 00:38:39.069 INFO 18728 --- [nnioGroup-3-3] c.n.b.p.b.impl.AccountServiceImpl : Creating new account: [Account{id=null, status=Active, customersCustomerId=61dd17df99665802e3b20639}]
2022-01-11 00:40:10.479 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.expose.AccountController : Post operation in /accounts/operation
2022-01-11 00:40:10.480 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Start to save a new account operation for the account with id: [61dd17df99665802e3b20639]
2022-01-11 00:40:10.480 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : End to save a new account operation for the account with id: [61dd17df99665802e3b20639]
2022-01-11 00:40:10.483 INFO 18728 --- [nnioGroup-3-3] c.n.b.p.b.impl.AccountServiceImpl : Validating operation
2022-01-11 00:40:10.483 INFO 18728 --- [nnioGroup-3-3] c.n.b.p.b.impl.AccountServiceImpl : Account exists in database
2022-01-11 00:40:10.483 INFO 18728 --- [nnioGroup-3-3] c.n.b.p.b.impl.AccountServiceImpl : Operation successfully validated
2022-01-11 00:40:10.484 INFO 18728 --- [nnioGroup-3-3] c.n.b.p.b.impl.AccountServiceImpl : Doing deposit of [200.0] to account with id [61dd17df99665802e3b20639]
2022-01-11 00:40:10.484 INFO 18728 --- [nnioGroup-3-3] c.n.b.p.b.impl.AccountServiceImpl : Saving operation into account: [Account{id=61dd17df99665802e3b20639, status=A}]
2022-01-11 00:40:10.484 INFO 18728 --- [nnioGroup-3-3] c.n.b.p.b.impl.AccountServiceImpl : Operation was successfully updated
2022-01-11 00:40:12.889 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.expose.AccountController : Post operation in /accounts/operation
2022-01-11 00:40:12.889 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : Start to save a new account operation for the account with id: [61dd17df99665802e3b20639]
2022-01-11 00:40:12.890 INFO 18728 --- [ctor-http-nio-5] c.n.b.p.b.impl.AccountServiceImpl : End to save a new account operation for the account with id: [61dd17df99665802e3b20639]
2022-01-11 00:40:12.893 INFO 18728 --- [nnioGroup-3-3] c.n.b.p.b.impl.AccountServiceImpl : Validating operation
2022-01-11 00:40:12.893 INFO 18728 --- [nnioGroup-3-3] c.n.b.p.b.impl.AccountServiceImpl : Account exists in database
2022-01-11 00:40:12.893 INFO 18728 --- [nnioGroup-3-3] c.n.b.p.b.impl.AccountServiceImpl : Maximum number of operations reached, can not do more operations
2022-01-11 00:40:12.893 WARN 18728 --- [nnioGroup-3-3] c.n.b.p.b.impl.AccountServiceImpl : Proceeding to abort do operation

```

19. Post do operation with error: account not found:

Account was not found, so a 404-not-found status was returned.

POST localhost:8082/api/v1/accounts/operations

Params Authorization Headers (9) Body [Pre-request Script](#) Tests Settings

none form-data x-www-form-urlencoded raw binary GraphQL [JSON](#) [Beautify](#)

```

1 {
2   "id": "any-not-existing-id",
3   "operation": {
4     "type": "Deposit",
5     "amount": 200.00
6   }
7 }

```

Body Cookies Headers (1) Test Results

Pretty Raw Preview Visualize Text [Send](#) [Save](#) [Status: 404 Not Found](#) [Time: 13 ms](#) [Size: 45 B](#) [Save Response](#)

20. Put reset done operations in the month without errors:

For testing purposes, there were added an endpoint to reset the number of done operations in a specified account. As it can be seen in the example, doneOperationsInMonth field has been reset to zero.

passive-operations-service / Put reset done operations in the month without errors

PUT localhost:8082/api/v1/accounts/61dd17df99666502e3b20639/reset-operations-number

Status: 200 OK Time: 16 ms Size: 1.2 KB Save Cookies Send

```

1 {
2   "id": "61dd17df99666502e3b20639",
3   "status": "Active",
4   "customer": {
5     "id": "63dcc588ff02e3495cb42613",
6     "type": "Personal",
7     "status": "Active"
8   },
9   "accountType": {
10    "id": "d392ead4-50e2-4101-aef5-87979315e873",
11    "description": "Long term",
12    "commission": null,
13    "maximumNumberOperations": 1,
14    "allowedDayForOperations": 11
15  },
16  "accountNumber": "c443d0ca-bc6c-45ca-b3a6-18023f29cd6",
17  "issueDate": "2020-01-09T00:00:00.000+00:00",
18  "dueDate": "2026-01-04T00:00:00.000+00:00",
19  "currentBalance": 200.0,
20  "doneOperationsInMonth": 0,
21  "operations": [
22    {
23      "operationNumber": "f6c0314d-a6ca-4613-9846-75df4b71bf94",
24      "time": "2022-01-11T05:40:10.484+00:00",
    }
  ]
}

```

21. Put reset done operations in the month with errors: account not found:

Account was not found, so a 404-not-found status was returned.

passive-operations-service / Put reset done operations in the month with errors: account not found

PUT localhost:8082/api/v1/accounts/any-not-existing-account/reset-operations-number

Status: 404 Not Found Time: 8 ms Size: 45 B Save Cookies Send

```
1
```

22. Get operations by account id:

passive-operations-service / Get operations by account id

GET localhost:8082/api/v1/accounts/61dce88199666502e3b20636/operations

Status: 200 OK Time: 20 ms Size: 473 B Save Cookies Send

```

1 [
2   {
3     "operationNumber": "4e652303-e532-45c8-9be3-ae355e1902f9",
4     "time": "2022-01-11T05:25:13.967+00:00",
5     "type": "Deposit",
6     "amount": 250.0
7   },
8   {
9     "operationNumber": "18423152-a106-4fd8-8ded-5a946103bce1",
10    "time": "2022-01-11T05:30:33.651+00:00",
11    "type": "Deposit",
12    "amount": 250.0
13  },
14  {
15    "operationNumber": "17e045de-beab-40cd-baab-99508814d510",
16    "time": "2022-01-11T05:56:11.081+00:00",
17    "type": "Withdrawal",
18    "amount": 120.0
19  }
]

```

23. Get balances by customer id:

The screenshot shows a Postman interface with the following details:

- URL:** localhost:8082/api/v1/customers/61dcc8b9ff2e3495cb42614/accounts/balance
- Method:** GET
- Params:** Key, Value, Description
- Body:** Status: 200 OK, Time: 35 ms, Size: 242 B, Save Response
- Response Body:**

```

1 [
2   {
3     "id": "61dce88199666502e3b20636",
4     "accountType": "Current",
5     "currentBalance": 380.0
6   },
7   {
8     "id": "61dd1bcc99666502e3b2063a",
9     "accountType": "Current",
10    "currentBalance": 820.0
11  }
12 ]

```

24. Post new personal vip account without error:

The screenshot shows a Postman interface with the following details:

- URL:** localhost:8082/api/v1/accounts
- Method:** POST
- Body:** JSON, Status: 201 Created, Time: 230 ms, Size: 1.19 KB
- Response Body:**

```

1 {
2   "customerId": "61e0a6bb2ed4fd76f98c954e",
3   "accountType": {
4     "group": "Savings",
5     "subgroup": "VIP"
6   },
7   "accountSpecifications": {
8     "maximumNumberOfOperations": 5,
9     "operationCommissionPercentage": 11
10  },
11  "issueDate": "2020-01-09",
12  "dueDate": "2026-01-04",
13  "holders": [
14    ...
15  ]

```

25. Post new personal vip account with error: No credits for customer:

The screenshot shows a POST request to `localhost:8082/api/v1/accounts`. The request body is a JSON object:

```

1  {
2   .... "customerId": "61e0a6bb2ed4fd76f98c954e",
3   .... "accountType": {
4   .... "group": "Savings",
5   .... "subgroup": "VIP"
6   .... },
7   .... "accountSpecifications": [
8   .... {"maximumNumberOfOperations": 5,
9   .... "operationCommissionPercentage": 11
10  .... },
11  .... {"issueDate": "2020-01-09",

```

The response status is 500 Internal Server Error.

In console, we can see the following logs:

```

2022-01-15 17:08:41.752 INFO 23832 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Start of operation to create an account
2022-01-15 17:08:41.753 INFO 23832 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Start of operation to retrieve customer with id [61dc588fffb2e3495cb42613]
2022-01-15 17:08:41.753 INFO 23832 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Retrieving customer
2022-01-15 17:08:41.755 INFO 23832 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Customer retrieved successfully
2022-01-15 17:08:41.756 INFO 23832 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : End of operation to retrieve customer with id: [61dc588fffb2e3495cb42613]
2022-01-15 17:08:41.757 INFO 23832 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : End of operation to create an account
2022-01-15 17:08:42.026 INFO 23832 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Validating account
2022-01-15 17:08:42.027 INFO 23832 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Customer exists in database
2022-01-15 17:08:42.027 WARN 23832 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Standard customers can not create vip accounts
2022-01-15 17:08:42.027 WARN 23832 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountController : Proceeding to abort create account
2022-01-15 17:09:26.285 INFO 23832 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Post operation in /accounts
2022-01-15 17:09:26.285 INFO 23832 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Start of operation to create an account
2022-01-15 17:09:26.285 INFO 23832 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Start of operation to retrieve customer with id [61e0a6bb2ed4fd76f98c954e]
2022-01-15 17:09:26.285 INFO 23832 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Retrieving customer
2022-01-15 17:09:26.286 INFO 23832 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Customer retrieved successfully
2022-01-15 17:09:26.286 INFO 23832 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : End of operation to retrieve customer with id: [61e0a6bb2ed4fd76f98c954e]
2022-01-15 17:09:26.316 INFO 23832 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : End of operation to create an account
2022-01-15 17:09:26.317 INFO 23832 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Validating account
2022-01-15 17:09:26.317 INFO 23832 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Customer exists in database
2022-01-15 17:09:26.317 INFO 23832 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Start of operation to retrieve all accounts of the customer with id: [61e0a6bb2ed4fd76f98c954e]
2022-01-15 17:09:26.317 INFO 23832 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Retrieving accounts
2022-01-15 17:09:26.320 INFO 23832 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Accounts retrieved successfully
2022-01-15 17:09:26.321 INFO 23832 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : End of operation to retrieve accounts of the customer with id: [61e0a6bb2ed4fd76f98c954e]
2022-01-15 17:09:26.341 INFO 23832 --- [nnioGroup-3-3] c.n.b.p.b.impl.AccountServiceImpl : Start of operation to retrieve credits of customer with id [61e0a6bb2ed4fd76f98c954e]
2022-01-15 17:09:26.342 INFO 23832 --- [nnioGroup-3-3] c.n.b.p.b.impl.AccountServiceImpl : Retrieving credits
2022-01-15 17:09:26.342 INFO 23832 --- [nnioGroup-3-3] c.n.b.p.b.impl.AccountServiceImpl : Customer retrieved successfully
2022-01-15 17:09:26.342 INFO 23832 --- [nnioGroup-3-3] c.n.b.p.b.impl.AccountServiceImpl : End of operation to retrieve customer with id: [61e0a6bb2ed4fd76f98c954e]
2022-01-15 17:09:26.391 WARN 23832 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Can not create savings vip account because customer does not have a credit pr
2022-01-15 17:09:26.392 WARN 23832 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Proceeding to abort create account

```

26. Post new business pyme account without error:

passive-operations-service / Post new business pyme account without error

Save

POST localhost:8082/api/v1/accounts

Params Authorization Headers (9) **Body** Pre-request Script Tests Settings

none form-data x-www-form-urlencoded raw binary GraphQL **JSON**

```
1 {  
2   ... "customerId": "61e0a6c72ed4fd76f98c954f",  
3   ... "accountType": {  
4     ... "group": "Current",  
5     ... "subgroup": "PYME"  
6   },  
7   ... "issueDate": "2018-07-10",  
8   ... "dueDate": "2022-07-10",  
9   ... "holders": [  
10     ... {
```

Body Cookies Headers (2) Test Results Status: 201 Created Time: 117 ms Size: 1.04 KB

Pretty Raw Preview Visualize JSON

```
1 {  
2   "id": "61e34af2b448896f5c70b111",  
3   "status": "Active",  
4   "customer": {  
5     "id": "61e0a6c72ed4fd76f98c954f",  
6     "customerType": {  
7       "group": "Business",  
8       "subgroup": "PYME"  
7     },  
9   },  
10  "status": "Active"
```

27. Post new business pyme account with error: No credits for customer

localhost:8082/api/v1/accounts

POST localhost:8082/api/v1/accounts Send

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies Beautify

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```
1 {
2     "customerId": "61e0a6c72ed4fd76f98c954f",
3     "accountType": {
4         "group": "Current",
5         "subgroup": "PYME"
6     },
7     "issueDate": "2018-07-10",
8     "dueDate": "2022-07-10",
9     "holders": [
10         {
11             "name": "Mario"
12         }
13     ]
14 }
```

Body Cookies Headers (1) Test Results Status: 500 Internal Server Error Time: 150 ms Size: 57 B Save Response

Pretty Raw Preview Visualize Text

In console, we can see the following logs:

```

2022-01-15 17:22:48.825 INFO 23832 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Retrieving customer
2022-01-15 17:22:48.826 INFO 23832 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Customer retrieved successfully
2022-01-15 17:22:48.826 INFO 23832 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : End of operation to retrieve customer with id: [61e0a6bb2ed4fd76f98c954e]
2022-01-15 17:22:48.826 INFO 23832 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : End of operation to create an account
2022-01-15 17:22:48.848 INFO 23832 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Validating account
2022-01-15 17:22:48.848 INFO 23832 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Customer exists in database
2022-01-15 17:22:48.848 INFO 23832 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Start of operation to retrieve all accounts of the customer with id: [61e0a6bb2ed4fd76f98c954e]
2022-01-15 17:22:48.849 INFO 23832 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Accounts retrieved successfully
2022-01-15 17:22:48.849 INFO 23832 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : End of operation to retrieve accounts of the customer with id: [61e0a6bb2ed4fd76f98c954e]
2022-01-15 17:22:48.854 WARN 23832 --- [nioLoopGroup-3-3] c.n.b.p.b.impl.AccountServiceImpl : Can not create more than one account for a personal customer
2022-01-15 17:22:48.854 WARN 23832 --- [nioLoopGroup-3-3] c.n.b.p.b.impl.AccountServiceImpl : Proceeding to abort create account
2022-01-15 17:27:39.629 INFO 23832 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountController : Post operation in /accounts
2022-01-15 17:27:39.630 INFO 23832 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Start of operation to create an account
2022-01-15 17:27:39.630 INFO 23832 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Start of operation to retrieve customer with id [61e0a6c72ed4fd76f98c954f] fr
2022-01-15 17:27:39.630 INFO 23832 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Retrieving customer
2022-01-15 17:27:39.631 INFO 23832 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Customer retrieved successfully
2022-01-15 17:27:39.631 INFO 23832 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : End of operation to retrieve customer with id: [61e0a6c72ed4fd76f98c954f]
2022-01-15 17:27:39.631 INFO 23832 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : End of operation to create an account
2022-01-15 17:27:39.714 INFO 23832 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Validating account
2022-01-15 17:27:39.715 INFO 23832 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Customer exists in database
2022-01-15 17:27:39.715 INFO 23832 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Start of operation to retrieve credits of customer with id [61e0a6c72ed4fd76f98c954f]
2022-01-15 17:27:39.716 INFO 23832 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Retrieving credits
2022-01-15 17:27:39.718 INFO 23832 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Customer retrieved successfully
2022-01-15 17:27:39.719 INFO 23832 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : End of operation to retrieve customer with id: [61e0a6c72ed4fd76f98c954f]
2022-01-15 17:27:39.769 WARN 23832 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Can not create current pyme account because customer does not have a credit p
2022-01-15 17:27:39.770 WARN 23832 --- [ctor-http-nio-3] c.n.b.p.b.impl.AccountServiceImpl : Proceeding to abort create account

```

Build completed successfully in 4 sec. 376 ms (23 minutes ago)

141:185 (83 chars) CRLF UTF-8 4 spaces dev Event Log

28. Post do transfer without error:

passive-operations-service / Post do transfer without error

POST <localhost:8082/api/v1/accounts/operations>

Params Authorization Headers (9) Body [Pre-request Script](#) Tests Settings Cookies Beautify

Body

```

1 {
2   ...
3   "id": "61dd1bcc99666502e3b2063a",
4   "operation": {
5     ...
6     "type": "Transfer Out",
7     ...
8     "amount": 70.00
9   },
10  ...
11  "targetId": "61e347e4b448896f5c70b110"
12 }

```

Body Cookies Headers (2) Test Results

Status: 201 Created Time: 392 ms Size: 1.54 KB [Save Response](#)

Pretty Raw Preview Visualize JSON

```

1 {
2   ...
3   "id": "61dd1bcc99666502e3b2063a",
4   "status": "Active",
5   "customer": {
6     ...
7     "id": "61dcc8b9fffb2e3495cb42614",
8     ...
9     "customerType": {
10       ...
11       "group": "Business",
12       ...
13       "subgroup": "Standard"
14     },
15     ...
16     "status": "Active"
17 }
18

```

ACTIVE-OPERATIONS-SERVICE:

1. Post new personal credit without error:

```

passive-operations-service / Post new personal credit without error
POST localhost:8083/api/v1/credits
Params Authorization Headers (9) Body Pre-request Script Tests Settings
none form-data x-www-form-urlencoded raw binary GraphQL JSON
1 {
2   "customerId": "61dcc588fffb2e3495cb42613",
3   "fullGrantedAmount": 8000.00,
4   "issueDate": "2019-09-27",
5   "dueDate": "2023-09-27",
6   "billingDetails": [
7     {
8       "interestPercentage": 3,
9       "closingDay": 5
10    }
11 }

```

Body Cookies Headers (2) Test Results

Pretty Raw Preview Visualize JSON

Status: 201 Created Time: 2.15 s Size: 482 B Save Response

2. Post new personal credit with error: personal customers can only have one credit:

When attempting to create another credit for the same customerId of operation 1, we get a 500-internal-server-error response, because personal customers can only have one credit.

```

passive-operations-service / Post new personal credit with error: personal customers can only have one credit
POST localhost:8083/api/v1/credits
Params Authorization Headers (9) Body Pre-request Script Tests Settings
none form-data x-www-form-urlencoded raw binary GraphQL JSON
1 {
2   "customerId": "61dcc588fffb2e3495cb42613",
3   "fullGrantedAmount": 8000.00,
4   "issueDate": "2019-09-27",
5   "dueDate": "2023-09-27",
6   "billingDetails": [
7     {
8       "interestPercentage": 3,
9       "closingDay": 5
10    }
11 }

```

Body Cookies Headers (1) Test Results

Pretty Raw Preview Visualize Text

Status: 500 Internal Server Error Time: 62 ms Size: 57 B Save Response

In console, we can see the following logs:

```

2022-01-11 01:02:49.485 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Retrieving customer
2022-01-11 01:02:49.531 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Customer retrieved successfully
2022-01-11 01:02:49.531 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : End of operation to retrieve customer with id: [61dcc588fffb2e3495cb42613]
2022-01-11 01:02:49.532 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : End of operation to create a credit
2022-01-11 01:02:49.532 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Validating credit
2022-01-11 01:02:49.495 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Customer exists in database
2022-01-11 01:02:49.495 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Start of operation to retrieve all credits of the customer with id: [61dcc588fffb2e3495cb42613]
2022-01-11 01:02:49.495 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Credits retrieved successfully
2022-01-11 01:02:49.517 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : End of operation to retrieve credits of the customer with id: [61dcc588fffb2e3495cb42613]
2022-01-11 01:02:49.518 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Credit successfully validated
2022-01-11 01:02:49.593 INFO 13512 --- [nioLoopGroup-3-3] c.n.b.a.business.impl.CreditServiceImpl : Creating new credit: [Credit{id=null, status=Active, customer=Customer{id=61dcc588fffb2e3495cb42613}, type=Business}]
2022-01-11 01:02:49.613 INFO 13512 --- [nioLoopGroup-3-3] c.n.b.a.business.impl.CreditServiceImpl : Post operation in /credits
2022-01-11 01:05:34.857 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.expose.CreditController : Start of operation to create a credit
2022-01-11 01:05:34.858 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Start of operation to create a credit
2022-01-11 01:05:34.859 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Start of operation to retrieve customer with id [61dcc588fffb2e3495cb42613]
2022-01-11 01:05:34.859 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Retrieving customer
2022-01-11 01:05:34.860 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Customer retrieved successfully
2022-01-11 01:05:34.860 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : End of operation to retrieve customer with id: [61dcc588fffb2e3495cb42613]
2022-01-11 01:05:34.861 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : End of operation to create a credit
2022-01-11 01:05:34.880 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Validating credit
2022-01-11 01:05:34.881 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Customer exists in database
2022-01-11 01:05:34.881 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Start of operation to retrieve all credits of the customer with id: [61dcc588fffb2e3495cb42613]
2022-01-11 01:05:34.881 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Retrieving credits
2022-01-11 01:05:34.882 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Credits retrieved successfully
2022-01-11 01:05:34.883 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : End of operation to retrieve credits of the customer with id: [61dcc588fffb2e3495cb42613]
2022-01-11 01:05:34.908 WARN 13512 --- [nioLoopGroup-3-3] c.n.b.a.business.impl.CreditServiceImpl : Can not create more than one credit for a personal customer
2022-01-11 01:05:34.908 WARN 13512 --- [nioLoopGroup-3-3] c.n.b.a.business.impl.CreditServiceImpl : Proceeding to abort create credit

```

3. Post new business credit without error:

passive-operations-service / Post new business credit without error

POST localhost:8083/api/v1/credits

Body (9) Send

Params Authorization Headers (9) Body Pre-request Script Tests Settings

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```

1 {
2   "customerId": "61dcc8b9fffb2e3495cb42614",
3   "fullGrantedAmount": 128500.00,
4   "issueDate": "2021-11-03",
5   "dueDate": "2025-11-03",
6   "billingDetails": {
7     "interestPercentage": 4,
8     "closingDay": 10
9   }
10 }

```

Body Cookies Headers (2) Test Results Status: 201 Created Time: 31 ms Size: 487 B Save Response

Pretty Raw Preview Visualize JSON

```

1 {
2   "id": "61dd1eff71190468347f1d2c",
3   "status": "Active",
4   "customer": {
5     "id": "61dcc8b9fffb2e3495cb42614",
6     "type": "Business",
7     "status": "Active"
8   },
9   "fullGrantedAmount": 128500.0,
10  "availableAmount": 128500.0

```

Find and Replace Console Capture Requests Bootcamp Runner Trash

4. Post new credit with error: customers cannot create credits when they have blocked status:

When attempting to create a credit for a blocked customer, we get a 423-locked response.

passive-operations-service / Post new credit with error: customers cannot create credits when they have blocked status

```

POST      localhost:8083/api/v1/credits
Params   Authorization   Headers (9)   Body   Pre-request Script   Tests   Settings
none   form-data   x-www-form-urlencoded   raw   binary   GraphQL   JSON
1 {
  "customerId": "61dcc8b9fffb2e3495cb42614",
  "fullGrantedAmount": 128500.00,
  "issueDate": "2021-11-03",
  "dueDate": "2025-11-03",
  "billingDetails": [
    {
      "interestPercentage": 4,
      "closingDay": 10
    }
  ]
}

```

Status: 423 Locked Time: 34 ms Size: 42 B Save Response

In console, we get the following logs:

```

2022-01-11 01:05:34.881 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Retrieving credits
2022-01-11 01:05:34.882 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Credits retrieved successfully
2022-01-11 01:05:34.883 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : End of operation to retrieve credits of the customer with id: [61dcc588fffb2e3495cb42614]
2022-01-11 01:05:34.908 WARN 13512 --- [nioLoopGroup-3-3] c.n.b.a.business.impl.CreditServiceImpl : Can not create more than one credit for a personal customer
2022-01-11 01:05:34.908 WARN 13512 --- [nioLoopGroup-3-3] c.n.b.a.business.impl.CreditServiceImpl : Proceeding to abort create credit
2022-01-11 01:05:34.908 WARN 13512 --- [ctor-http-nio-3] c.n.b.a.expose.CreditController : Post operation in /credits
2022-01-11 01:09:03.342 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Start of operation to create a credit
2022-01-11 01:09:03.342 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Start of operation to retrieve customer with id [61dcc8b9fffb2e3495cb42614]
2022-01-11 01:09:03.342 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Retrieving customer
2022-01-11 01:09:03.342 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Customer retrieved successfully
2022-01-11 01:09:03.342 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : End of operation to retrieve customer with id: [61dcc8b9fffb2e3495cb42614]
2022-01-11 01:09:03.342 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : End of operation to create a credit
2022-01-11 01:09:03.353 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Validating credit
2022-01-11 01:09:03.358 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Customer exists in database
2022-01-11 01:09:03.358 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Credit successfully validated
2022-01-11 01:09:03.358 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Creating new credit: [{creditId=null, status=Active, customer=Customer{id=61dcc588fffb2e3495cb42614}}
2022-01-11 01:12:14.313 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.expose.CreditController : Post operation in /credits
2022-01-11 01:12:14.314 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Start of operation to create a credit
2022-01-11 01:12:14.314 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Start of operation to retrieve customer with id [61dcc8b9fffb2e3495cb42614]
2022-01-11 01:12:14.316 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Retrieving customer
2022-01-11 01:12:14.317 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Customer retrieved successfully
2022-01-11 01:12:14.318 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : End of operation to retrieve customer with id: [61dcc8b9fffb2e3495cb42614]
2022-01-11 01:12:14.318 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : End of operation to create a credit
2022-01-11 01:12:14.335 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Validating credit
2022-01-11 01:12:14.335 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Customer exists in database
2022-01-11 01:12:14.336 WARN 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Customer have blocked status
2022-01-11 01:12:14.336 WARN 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Proceeding to abort create credit

```

5. Post new credit with error: credit does not have billing details:

passive-operations-service / Post new credit with error: credit does not have billing details

```

POST      localhost:8083/api/v1/credits
Params   Authorization   Headers (9)   Body   Pre-request Script   Tests   Settings
none   form-data   x-www-form-urlencoded   raw   binary   GraphQL   JSON
1 {
  "customerId": "61dcc8b9fffb2e3495cb42614",
  "fullGrantedAmount": 128500.00,
  "issueDate": "2021-11-03",
  "dueDate": "2025-11-03"
}

```

Status: 400 Bad Request Time: 37 ms Size: 47 B Save Response

In console, we see the following logs:

```
2022-01-11 01:09:03.342 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : End of operation to create a credit
2022-01-11 01:09:03.353 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Validating credit
2022-01-11 01:09:03.358 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Customer exists in database
2022-01-11 01:09:03.358 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Credit successfully validated
2022-01-11 01:09:03.358 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Creating new credit: [credit(id=null, status=Active, customer=Customer{id=61dc...}...)]
2022-01-11 01:12:14.313 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.expose.CreditController : Post operation in /credits
2022-01-11 01:12:14.314 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Start of operation to create a credit
2022-01-11 01:12:14.314 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Retrieving customer
2022-01-11 01:12:14.316 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Customer retrieved successfully
2022-01-11 01:12:14.317 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : End of operation to retrieve customer with id: [61dc...]
2022-01-11 01:12:14.318 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : End of operation to create a credit
2022-01-11 01:12:14.318 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Validating credit
2022-01-11 01:12:14.335 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Customer exists in database
2022-01-11 01:12:14.336 WARN 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Customer have blocked status
2022-01-11 01:12:14.336 WARN 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Proceeding to abort create credit
2022-01-11 01:12:14.337 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditController : Post operation in /credits
2022-01-11 01:12:14.337 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Start of operation to create a credit
2022-01-11 01:12:14.338 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Start of operation to retrieve customer with id: [61dc...]
2022-01-11 01:12:14.338 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : End of operation to create a credit
2022-01-11 01:12:14.339 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Validating credit
2022-01-11 01:12:14.355 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Customer exists in database
2022-01-11 01:12:14.356 WARN 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Customer have blocked status
2022-01-11 01:12:14.356 WARN 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Proceeding to abort create credit
2022-01-11 01:12:14.357 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditController : Post operation in /credits
2022-01-11 01:12:14.357 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Start of operation to create a credit
2022-01-11 01:12:14.358 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Start of operation to retrieve customer with id: [61dc...]
2022-01-11 01:12:14.358 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : End of operation to create a credit
2022-01-11 01:12:14.359 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Validating credit
2022-01-11 01:12:14.364 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Customer exists in database
2022-01-11 01:12:14.364 WARN 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Credit does not contain billing details
2022-01-11 01:12:14.364 WARN 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Proceeding to abort update account
```

6. Get all credits:

passive-operations-service / Get all credits

GET localhost:8083/api/v1/credits

Status: 200 OK Time: 32 ms Size: 897 B Save Response

```
[{"id": "61dd1d8a71190468347f1d2b", "status": "Active", "customer": {"id": "61dc58fffb2e3495cb42613", "type": "Personal", "status": "Active"}, "fullGrantedAmount": 8000.0, "availableAmount": 8000.0, "creditCardNumber": "5ad9e9ff-39b5-4cea-bd73-2443060c3440", "issueDate": "2019-09-27T00:00:00.000+00:00", "dueDate": "2023-09-27T00:00:00.000+00:00", "operations": null, "billingDetails": {"interestPercentage": 3.0, "closingDay": 5}, "customer": {"id": "61dd1eff71190468347f1d2c", "status": "Active", "customer": {}}]
```

7. Get credit by id:

```

1 {
2   "id": "61dd1d8a71190468347fid2b",
3   "status": "Active",
4   "customer": {
5     "id": "61dcc588ffbf2e3495cb42613",
6     "type": "Personal",
7     "status": "Active"
8   },
9   "fullGrantedAmount": 8000.0,
10  "availableAmount": 8000.0,
11  "creditCardNumber": "5ad9e9fff-39b5-4cea-bd73-2443060c3440",
12  "issueDate": "2019-09-27T00:00:00.000+00:00",
13  "dueDate": "2023-09-27T00:00:00.000+00:00",
14  "operations": null,
15  "billingDetails": {
16    "interestPercentage": 3.0,
17    "closingDay": 5
18  }
19 }

```

8. Put credit without error:

```

1 {
2   "id": "61dd1d8a71190468347fid2b",
3   "status": "Active",
4   "fullGrantedAmount": 7500.0,
5   "availableAmount": 7500.0,
6   "dueDate": "2025-09-27",
7   "billingDetails": [
8     {
9       "interestPercentage": 4.0,
10      "closingDay": 5
11    }
12  ]
13 }

```

9. Put credit with error: credit does not have billing details:

```

1

```

In console, we can see the following logs:

```

2022-01-11 01:18:20.214 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Start of operation to find a credit by id
2022-01-11 01:18:20.214 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Retrieving credit with id: [61dd1d8a71190468347ff1d2b]
2022-01-11 01:18:20.217 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Credit with id: [61dd1d8a71190468347ff1d2b] was retrieved successfully
2022-01-11 01:18:20.217 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.expose.CreditController : End of operation to find a credit by id
2022-01-11 01:23:56.760 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Start of operation to update a credit
2022-01-11 01:23:56.761 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Start of operation to find a credit by id
2022-01-11 01:23:56.761 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Retrieving credit with id: [61dd1d8a71190468347ff1d2b]
2022-01-11 01:23:56.762 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Credit with id: [61dd1d8a71190468347ff1d2b] was retrieved successfully
2022-01-11 01:23:56.762 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : End of operation to find a credit by id
2022-01-11 01:23:56.762 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : End of operation to update an credit
2022-01-11 01:23:56.768 INFO 13512 --- [ntlooopGroup-3-3] c.n.b.a.business.impl.CreditServiceImpl : Validating credit
2022-01-11 01:23:56.768 INFO 13512 --- [ntlooopGroup-3-3] c.n.b.a.business.impl.CreditServiceImpl : Credit exists in database
2022-01-11 01:23:56.768 INFO 13512 --- [ntlooopGroup-3-3] c.n.b.a.business.impl.CreditServiceImpl : Credit successfully validated
2022-01-11 01:23:56.769 INFO 13512 --- [ntlooopGroup-3-3] c.n.b.a.business.impl.CreditServiceImpl : Updating credit: [Credit{id=61dd1d8a71190468347ff1d2b, status=Active, customerName=John Doe, grantedAmount=7500.0, availableAmount=8000.0, dueDate=2025-09-27, billingDetails=[{interestPercentage=4.0, closingDay=5}]}]
2022-01-11 01:23:56.771 INFO 13512 --- [ntlooopGroup-3-3] c.n.b.a.business.impl.CreditServiceImpl : Credit with id: [61dd1d8a71190468347ff1d2b] was successfully updated
2022-01-11 01:24:40.831 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.expose.CreditController : Put operation in /credits
2022-01-11 01:24:40.831 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Start of operation to update a credit
2022-01-11 01:24:40.831 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Start of operation to find a credit by id
2022-01-11 01:24:40.831 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Retrieving credit with id: [61dd1d8a71190468347ff1d2b]
2022-01-11 01:24:40.832 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Credit with id: [61dd1d8a71190468347ff1d2b] was retrieved successfully
2022-01-11 01:24:40.832 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : End of operation to find a credit by id
2022-01-11 01:24:40.832 INFO 13512 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : End of operation to update an credit
2022-01-11 01:24:40.835 INFO 13512 --- [ntlooopGroup-3-3] c.n.b.a.business.impl.CreditServiceImpl : Validating credit
2022-01-11 01:24:40.836 INFO 13512 --- [ntlooopGroup-3-3] c.n.b.a.business.impl.CreditServiceImpl : Credit exists in database
2022-01-11 01:24:40.836 WARN 13512 --- [ntlooopGroup-3-3] c.n.b.a.business.impl.CreditServiceImpl : Credit does not contain billing details
2022-01-11 01:24:40.836 WARN 13512 --- [ntlooopGroup-3-3] c.n.b.a.business.impl.CreditServiceImpl : Proceeding to abort update account

```

10. Put credit with error: available amount is greater than full granted amount:

Available amount cannot be greater than the full granted amount.

passive-operations-service / Put credit with error: available amount is greater than full granted amount

PUT localhost:8083/api/v1/credits

Body

```

1 {
2     "id": "61dd1d8a71190468347ff1d2b",
3     "status": "Active",
4     "fullGrantedAmount": 7500.0,
5     "availableAmount": 8000.0,
6     "dueDate": "2025-09-27",
7     "billingDetails": [
8         {
9             "interestPercentage": 4.0,
10            "closingDay": 5
11        }
12    ]
13}

```

Status: 500 Internal Server Error Time: 262 ms Size: 57 B Save Response

In console, we can see the following logs:

```

2022-01-13 01:28:53.561 INFO 8980 --- [ restartedMain] n.b.a.ActiveOperationsServiceApplication : Starting ActiveOperationsServiceApplication using Java 11.0.13 on Lenovo-Laptop
2022-01-13 01:28:53.561 DEBUG 8980 --- [ restartedMain] n.b.a.ActiveOperationsServiceApplication : Running with Spring Boot v2.6.2, Spring v5.3.14
2022-01-13 01:28:53.610 INFO 8980 --- [ restartedMain] n.b.a.ActiveOperationsServiceApplication : No active profile set, falling back to default profiles: default
2022-01-13 01:28:53.610 INFO 8980 --- [ restartedMain] o.s.b.context.config.ConfigDataLoader : Fetching config from server at : http://localhost:8888
2022-01-13 01:28:53.610 INFO 8980 --- [ restartedMain] e.DevToolsPropertyDefaultsPostProcessor : Devtools property defaults active! Set 'spring.devtools.add-properties' to 'false' or 'skipPropertiesSet=true' to skip this message.
2022-01-13 01:28:53.610 INFO 8980 --- [ restartedMain] e.DevToolsPropertyDefaultsPostProcessor : For additional web related logging consider setting the 'logging.level.web' property to 'DEBUG'
2022-01-13 01:28:54.246 INFO 8980 --- [ restartedMain] s.d.r.c.RepositoryConfigurationDelegate : Bootstrapping Spring Data Reactive MongoDB repositories in DEFAULT mode.
2022-01-13 01:28:54.303 INFO 8980 --- [ restartedMain] s.d.r.c.RepositoryConfigurationDelegate : Finished Spring Data repository scanning in 54 ms. Found 1 Reactive MongoDB repository.
2022-01-13 01:28:54.651 INFO 8980 --- [ restartedMain] o.s.cloud.context.scope.GenericScope : BeanFactory id=14f988fc-01ec-3c29-9660-d79a04f86226
2022-01-13 01:28:55.211 WARN 8980 --- [ restartedMain] o.s.b.a.OptionalLiveReloadServer : Unable to start LiveReload server
2022-01-13 01:28:56.991 INFO 8980 --- [ restartedMain] o.s.b.a.web.EndpointLinksResolver : Exposing 1 endpoint(s) beneath base path '/actuator'
2022-01-13 01:28:58.251 INFO 8980 --- [ restartedMain] o.s.b.a.web.embedded.netty.NettyWebServer : Netty started on port 8883
2022-01-13 01:29:00.284 INFO 8980 --- [ restartedMain] n.b.a.ActiveOperationsServiceApplication : Started ActiveOperationsServiceApplication in 10.687 seconds (JVM running for 10.687)
2022-01-13 01:29:14.161 INFO 8980 --- [ctor-http-nio-3] c.n.b.a.expose.CreditController : Put operation in /credits
2022-01-13 01:29:14.161 INFO 8980 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Start of operation to update a credit
2022-01-13 01:29:14.161 INFO 8980 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Start of operation to find a credit by id
2022-01-13 01:29:14.161 INFO 8980 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Retrieving credit with id: [61dd1d8a71198468347f1d2b]
2022-01-13 01:29:14.181 INFO 8980 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Credit with id: [61dd1d8a71198468347f1d2b] was retrieved successfully
2022-01-13 01:29:14.181 INFO 8980 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : End of operation to find a credit by id
2022-01-13 01:29:14.181 INFO 8980 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : End of operation to update an credit
2022-01-13 01:29:14.241 INFO 8980 --- [nioLoopGroup-3-3] c.n.b.a.business.impl.CreditServiceImpl : Validating credit
2022-01-13 01:29:14.241 INFO 8980 --- [nioLoopGroup-3-3] c.n.b.a.business.impl.CreditServiceImpl : Credit exists in database
2022-01-13 01:29:14.241 WARN 8980 --- [nioLoopGroup-3-3] c.n.b.a.business.impl.CreditServiceImpl : The credit available amount can not be bigger than the full granted amount
2022-01-13 01:29:14.241 WARN 8980 --- [nioLoopGroup-3-3] c.n.b.a.business.impl.CreditServiceImpl : Proceeding to abort update credit

```

11. Put credit with error: credit not found:

Credit was not found, so a 404-not-found status was returned.

passive-operations-service / Put credit with error: credit not found

PUT localhost:8083/api/v1/credits

Body

```

1 {
2     "id": "any-non-existing-id",
3     "status": "Active",
4     "fullGrantedAmount": 7500.0,
5     "availableAmount": 7500.0,
6     "dueDate": "2025-09-27",
7     "billingDetails": {
8         "interestPercentage": 4.0,
9         "closingDay": 5
10    }
11 }

```

Status: 404 Not Found Time: 15 ms Size: 45 B Save Response

12. Delete credit by id without error:

The screenshot shows a Postman interface with the following details:

- Method:** DELETE
- URL:** localhost:8083/api/v1/credits/61dd2861a6af8025bba3a2fa
- Status:** 200 OK
- Time:** 35 ms
- Size:** 478 B
- Body (Pretty):**

```

1 {
2   "id": "61dd2861a6af8025bba3a2fa",
3   "status": "Active",
4   "customer": {
5     "id": "61dcc8b9fffb2e3495cb42614",
6     "type": "Business",
7     "status": "Active"
8   },
9   "fullGrantedAmount": 1300.0,
10  "availableAmount": 1300.0,
11  "creditCardNumber": "d84c18a-2d4c-4f7d-ae6b-4758e0ff9685",
12  "issueDate": "2021-11-03T00:00:00.000+00:00",
13  "dueDate": "2025-11-03T00:00:00.000+00:00",
14  "operations": null,
15  "billingDetails": {
16    "interestPercentage": 4.0,
17    "closingDay": 10
18  }
19 }
```

13. Delete credit by id with error: credit not found:

Credit was not found, so a 404-not-found status was returned.

The screenshot shows a Postman interface with the following details:

- Method:** DELETE
- URL:** localhost:8083/api/v1/credits/any-non-existing-id
- Status:** 404 Not Found
- Time:** 16 ms
- Size:** 45 B
- Body (Text):**

```
1
```

14. Get credits by customer id:

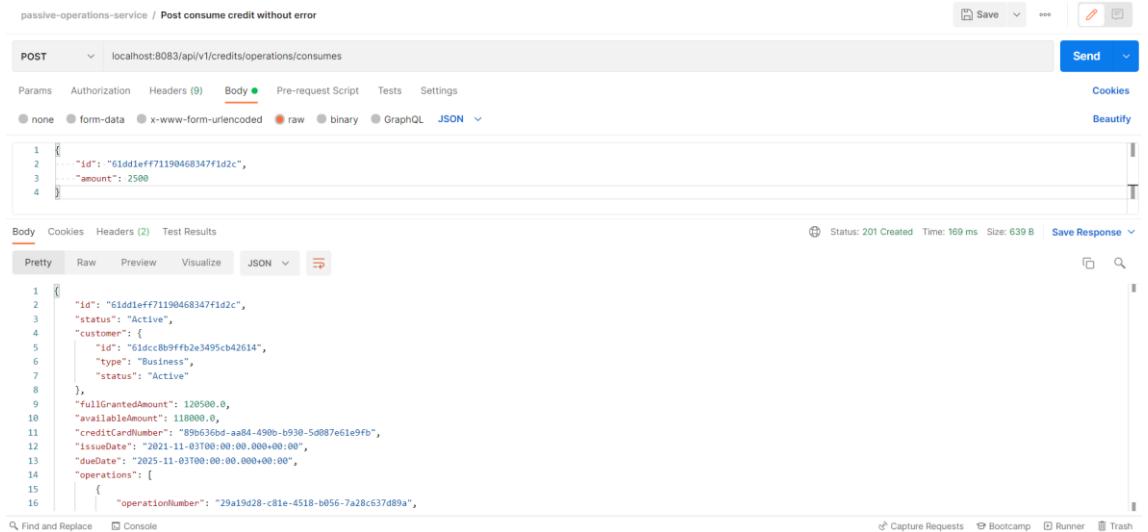
The screenshot shows a Postman interface with the following details:

- Method:** GET
- URL:** localhost:8083/api/v1/customers/61dcc8b9fffb2e3495cb42614/credits
- Status:** 200 OK
- Time:** 59 ms
- Size:** 902 B
- Body (Pretty):**

```

1 [
2   {
3     "id": "61dd1eff71190468347f1d2c",
4     "status": "Active",
5     "customer": {
6       "id": "61dcc8b9fffb2e3495cb42614",
7       "type": "Business",
8       "status": "Active"
9     },
10    "fullGrantedAmount": 120500.0,
11    "availableAmount": 120500.0,
12    "creditCardNumber": "896636bd-aa84-490b-b930-5d087e61e9fb",
13    "issueDate": "2021-11-03T00:00:00.000+00:00",
14    "dueDate": "2025-11-03T00:00:00.000+00:00",
15    "operations": null,
16    "billingDetails": {
17      "interestPercentage": 4.0,
18      "closingDay": 10
19    }
20  },
21  {
22    "id": "61dd34faa6af8025bba3a2fb",
23    "status": "Active",
24    "customer": {
```

15. Post consume credit without error:



passive-operations-service / Post consume credit without error

POST localhost:8083/api/v1/credits/operations/consumes

Params Authorization Headers (9) Body ● Pre-request Script Tests Settings

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```
1 {
2   "id": "61dd1eff71190468347fid2c",
3   "amount": 2500
4 }
```

Body Cookies Headers (2) Test Results

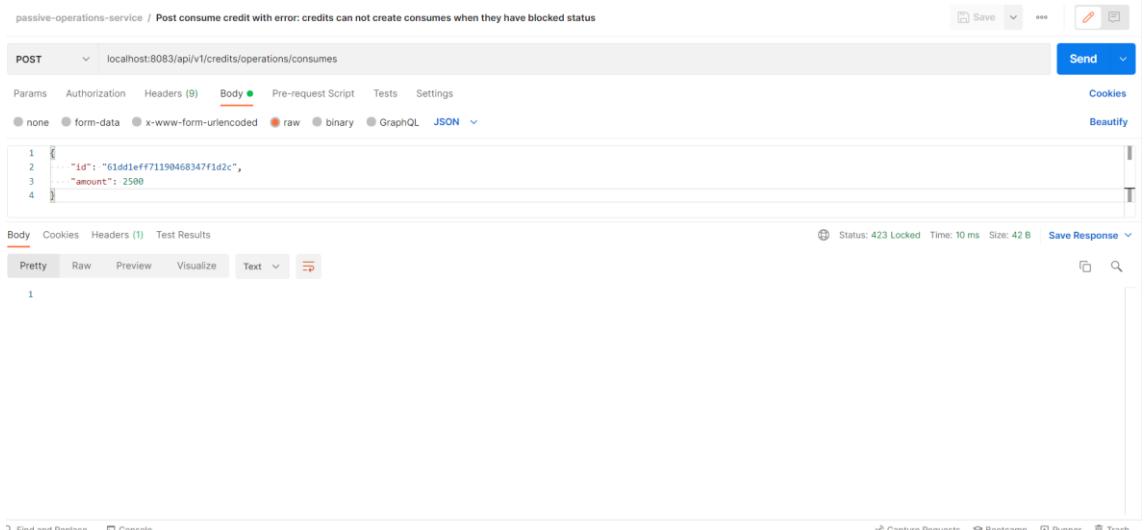
Pretty Raw Preview Visualize JSON

Status: 201 Created Time: 169 ms Size: 639 B Save Response

1 {
2 "id": "61dd1eff71190468347fid2c",
3 "status": "Active",
4 "customer": {
5 "id": "61dcc8b9fffb2e3495cb42614",
6 "type": "Business",
7 "status": "Active"
8 },
9 "fullGrantedAmount": 120500.0,
10 "availableAmount": 118000.0,
11 "creditCardNumber": "89b63bd-aab4-490b-b930-5d087e51e9fb",
12 "issueDate": "2021-11-03T00:00:00.000+00:00",
13 "dueDate": "2025-11-03T00:00:00.000+00:00",
14 "operations": [
15 {
16 "operationNumber": "29a19d28-c81e-451b-b056-7a28c637d89a",
17 }
18]
19 }

16. Post consume credit with error: credits can not create consumes when they have blocked status

When attempting to create an consume for a blocked credit, we get a 423-locked response.



passive-operations-service / Post consume credit with error: credits can not create consumes when they have blocked status

POST localhost:8083/api/v1/credits/operations/consumes

Params Authorization Headers (9) Body ● Pre-request Script Tests Settings

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```
1 {
2   "id": "61dd1eff71190468347fid2c",
3   "amount": 2500
4 }
```

Body Cookies Headers (1) Test Results

Pretty Raw Preview Visualize Text

Status: 423 Locked Time: 10 ms Size: 42 B Save Response

1

In console, we can see the following logs:

```

2022-01-11 02:45:35.513 INFO 9800 --- [nio-8080-exec-1] c.n.b.a.business.impl.CreditServiceImpl : Doing consumption of [2500.0] to credit with id: [61dd1eff71190468347fd2c]
2022-01-11 02:45:35.515 INFO 9800 --- [nio-8080-exec-1] c.n.b.a.business.impl.CreditServiceImpl : Saving consumption into credit: [CreditConsumeCreditRequestTO(id=61dd1eff71190468347fd2c)]
2022-01-11 02:45:35.516 INFO 9800 --- [nio-8080-exec-1] c.n.b.a.business.impl.CreditServiceImpl : Consumption was successfully saved
2022-01-11 02:48:17.575 INFO 9800 --- [ctor-http-nio-3] c.n.b.a.expose.CreditController : Get operation in /credits
2022-01-11 02:48:17.575 INFO 9800 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Start of operation to retrieve all credits
2022-01-11 02:48:17.576 INFO 9800 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Retrieving all credits
2022-01-11 02:48:17.576 INFO 9800 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : All credits retrieved successfully
2022-01-11 02:48:17.576 INFO 9800 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : End of operation to retrieve all credits
2022-01-11 02:49:31.423 INFO 9800 --- [ctor-http-nio-3] c.n.b.a.expose.CreditController : Put operation in /credits
2022-01-11 02:49:31.423 INFO 9800 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Start of operation to update a credit
2022-01-11 02:49:31.423 INFO 9800 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Start of operation to find a credit by id
2022-01-11 02:49:31.423 INFO 9800 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Retrieving credit with id: [61dd1eff71190468347fd2c]
2022-01-11 02:49:31.424 INFO 9800 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Credit with id: [61dd1eff71190468347fd2c] was retrieved successfully
2022-01-11 02:49:31.425 INFO 9800 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : End of operation to find a credit by id
2022-01-11 02:49:31.425 INFO 9800 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : End of operation to update an credit
2022-01-11 02:49:31.429 INFO 9800 --- [nioLoopGroup-3-3] c.n.b.a.business.impl.CreditServiceImpl : Validating credit
2022-01-11 02:49:31.429 INFO 9800 --- [nioLoopGroup-3-3] c.n.b.a.business.impl.CreditServiceImpl : Credit exists in database
2022-01-11 02:49:31.430 INFO 9800 --- [nioLoopGroup-3-3] c.n.b.a.business.impl.CreditServiceImpl : Credit successfully validated
2022-01-11 02:49:31.430 INFO 9800 --- [nioLoopGroup-3-3] c.n.b.a.business.impl.CreditServiceImpl : Updating credit: [Credit(id=61dd1eff71190468347fd2c, status=Blocked, customerName='John Doe')]
2022-01-11 02:49:31.431 INFO 9800 --- [nioLoopGroup-3-3] c.n.b.a.business.impl.CreditServiceImpl : Credit with id: [61dd1eff71190468347fd2c] was successfully updated
2022-01-11 02:49:42.429 INFO 9800 --- [ctor-http-nio-3] c.n.b.a.expose.CreditController : Post operation in /credits/operation/consumes
2022-01-11 02:49:42.430 INFO 9800 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Start to save a new credit consumption for the credit with id: [61dd1eff71190468347fd2c]
2022-01-11 02:49:42.430 INFO 9800 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : End to save a new account operation for the credit with id: [61dd1eff71190468347fd2c]
2022-01-11 02:49:42.434 INFO 9800 --- [nioLoopGroup-3-3] c.n.b.a.business.impl.CreditServiceImpl : Validating consumption operation
2022-01-11 02:49:42.434 INFO 9800 --- [nioLoopGroup-3-3] c.n.b.a.business.impl.CreditServiceImpl : Credit exists in database
2022-01-11 02:49:42.434 WARN 9800 --- [nioLoopGroup-3-3] c.n.b.a.business.impl.CreditServiceImpl : Credit have blocked status
2022-01-11 02:49:42.434 WARN 9800 --- [nioLoopGroup-3-3] c.n.b.a.business.impl.CreditServiceImpl : Proceeding to abort consumption operation

```

Build completed successfully in 4 sec. 205 ms (today 01-28)

29. Post consume credit with error: credit has insufficient funds:

POST localhost:8083/api/v1/credits/operations/consumes

Body

```

1 {
2   ... "id": "61dd1eff71190468347fd2c",
3   ... "amount": 500000
4 }

```

Status: 400 Bad Request Time: 17 ms Size: 47 B Save Response

In console, we can see the following logs:

```

2022-01-11 02:49:31.451 INFO 9880 --- [nio-8083-exec-1] c.n.b.a.business.impl.CreditServiceImpl : Credit with id: [61dd1eff71190468347f1d2c] was successfully updated
2022-01-11 02:49:42.429 INFO 9880 --- [ctor-http-nio-3] c.n.b.a.expose.CreditController : Post operation in /credits/operation/consumes
2022-01-11 02:49:42.430 INFO 9880 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Start to save a new credit consumption for the credit with id: [61dd1eff71190468347f1d2c]
2022-01-11 02:49:42.430 INFO 9880 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : End to save a new account operation for the credit with id: [61dd1eff71190468347f1d2c]
2022-01-11 02:49:42.434 INFO 9880 --- [nio-8083-exec-1] c.n.b.a.business.impl.CreditServiceImpl : Validating consumption operation
2022-01-11 02:49:42.434 INFO 9880 --- [nio-8083-exec-1] c.n.b.a.business.impl.CreditServiceImpl : Credit exists in database
2022-01-11 02:49:42.434 WARN 9880 --- [nio-8083-exec-1] c.n.b.a.business.impl.CreditServiceImpl : Credit have blocked status
2022-01-11 02:52:22.462 INFO 9880 --- [ctor-http-nio-3] c.n.b.a.expose.CreditController : Proceeding to abort consumption operation
2022-01-11 02:52:22.462 INFO 9880 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Put operation in /credits
2022-01-11 02:52:22.462 INFO 9880 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Start of operation to update a credit
2022-01-11 02:52:22.462 INFO 9880 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Start of operation to find a credit by id
2022-01-11 02:52:22.462 INFO 9880 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Retrieving credit with id: [61dd1eff71190468347f1d2c]
2022-01-11 02:52:22.463 INFO 9880 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Credit with id: [61dd1eff71190468347f1d2c] was retrieved successfully
2022-01-11 02:52:22.463 INFO 9880 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Credit exists in database
2022-01-11 02:52:22.463 INFO 9880 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : End of operation to find a credit by id
2022-01-11 02:52:22.466 INFO 9880 --- [nio-8083-exec-1] c.n.b.a.business.impl.CreditServiceImpl : End of operation to update an credit
2022-01-11 02:52:22.466 INFO 9880 --- [nio-8083-exec-1] c.n.b.a.business.impl.CreditServiceImpl : Validating credit
2022-01-11 02:52:22.466 INFO 9880 --- [nio-8083-exec-1] c.n.b.a.business.impl.CreditServiceImpl : Credit exists in database
2022-01-11 02:52:22.466 INFO 9880 --- [nio-8083-exec-1] c.n.b.a.business.impl.CreditServiceImpl : Credit successfully validated
2022-01-11 02:52:22.467 INFO 9880 --- [nio-8083-exec-1] c.n.b.a.business.impl.CreditServiceImpl : Updating credit: [Credit{id=61dd1eff71190468347f1d2c, status=Active, customerName='John Doe'}]
2022-01-11 02:52:22.469 INFO 9880 --- [nio-8083-exec-1] c.n.b.a.business.impl.CreditServiceImpl : Credit with id: [61dd1eff71190468347f1d2c] was successfully updated
2022-01-11 02:53:57.533 INFO 9880 --- [ctor-http-nio-3] c.n.b.a.expose.CreditController : Post operation in /credits/operation/consumes
2022-01-11 02:53:57.533 INFO 9880 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : Start to save a new credit consumption for the credit with id: [61dd1eff71190468347f1d2c]
2022-01-11 02:53:57.534 INFO 9880 --- [ctor-http-nio-3] c.n.b.a.business.impl.CreditServiceImpl : End to save a new account operation for the credit with id: [61dd1eff71190468347f1d2c]
2022-01-11 02:53:57.536 INFO 9880 --- [nio-8083-exec-1] c.n.b.a.business.impl.CreditServiceImpl : Validating consumption operation
2022-01-11 02:53:57.537 INFO 9880 --- [nio-8083-exec-1] c.n.b.a.business.impl.CreditServiceImpl : Credit exists in database
2022-01-11 02:53:57.537 INFO 9880 --- [nio-8083-exec-1] c.n.b.a.business.impl.CreditServiceImpl : Credit has insufficient funds
2022-01-11 02:53:57.537 WARN 9880 --- [nio-8083-exec-1] c.n.b.a.business.impl.CreditServiceImpl : Proceeding to abort do operation

```

17. Post consume credit with error: credit not found:

Credit was not found, so a 404-not-found status was returned.

```

POST localhost:8083/api/v1/credits/operations/consumes
Body
{
  "id": "any-non-existing-id",
  "amount": 2500
}

```

Status: 404 Not Found Time: 16 ms Size: 45 B Save Response

18. Post generate billing order without error:

For testing purposes, this endpoint generates a billing order with a randomly selected amount. Billing orders are used to pay customer's credit products, so before doing a payment this endpoint must be used for generating a billing order.

The screenshot shows a Postman interface with the following details:

- Method:** POST
- URL:** localhost:8083/api/v1/credits/61dd1eff71190468347fd2c/generate-billing-order
- Status:** 201 Created
- Time:** 32 ms
- Size:** 700 B
- Body (Pretty):**

```

  "customer": {
    "type": "business",
    "status": "Active"
  },
  "fullGrantedAmount": 120500.0,
  "availableAmount": 118000.0,
  "creditCardNumber": "89a6536d-aa84-490b-b930-5d087e61e9fb",
  "issueDate": "2021-11-03T00:00:00.000+00:00",
  "dueDate": "2025-11-03T00:00:00.000+00:00",
  "operations": [
    {
      "operationNumber": null,
      "time": null,
      "type": "Payment",
      "amount": null,
      "billingOrder": [
        {
          "id": "df0kf32-0559-4578-bbcd-b37a58ed6833",
          "calculatedAmount": 1430.65,
          "amountToRefund": 1383.32,
          "cycle": "1/2022",
          "status": "Unpaid"
        }
      ]
    }
  ],
  "billingDetails": {
    ...
  }
}

```

19. Post generate billing order with error: customer does not have debts in credit

If the credit card available amount is equal to the full granted amount, that means that the customer is not owing for any consumption and, because of that, a billing order can not be generated.

The screenshot shows a Postman interface with the following details:

- Method:** POST
- URL:** localhost:8083/api/v1/credits/61dd34faa6af8025bba3a2fb/generate-billing-order
- Status:** 500 Internal Server Error
- Time:** 17 ms
- Size:** 57 B
- Body (Text):**

```
1
```

In console, we can see the following logs:

```
2022-01-11 02:52:22.467 INFO 8988 --- [nioGroup-3-5] c.m.b.a.business.impl.CreditServiceImpl : Updating credit: [Credit{id=61dd1eff71190468347fid2c, statusActive, customerName='John Doe', amount=1000, term=12, interestRate=0.05, lastUpdate='2022-01-11T02:52:22.467Z'}]
2022-01-11 02:52:22.469 INFO 8988 --- [nioGroup-3-3] c.m.b.a.business.impl.CreditServiceImpl : Credit with id: [61dd1eff71190468347fid2c] was successfully updated
2022-01-11 02:53:57.533 INFO 8988 --- [ctor-http-nio-3] c.m.b.a.expose.CreditController : Post operation in /credits/operation/consumes
2022-01-11 02:53:57.535 INFO 8988 --- [ctor-http-nio-3] c.m.b.a.business.impl.CreditServiceImpl : Start to save a new credit consumption for the credit with id: [61dd1eff71190468347fid2c]
2022-01-11 02:53:57.534 INFO 8988 --- [ctor-http-nio-3] c.m.b.a.business.impl.CreditServiceImpl : End to save a new account operation for the credit with id: [61dd1eff71190468347fid2c]
2022-01-11 02:53:57.533 INFO 8988 --- [nioGroup-3-3] c.m.b.a.business.impl.CreditServiceImpl : Validating consumption operation
2022-01-11 02:53:57.533 INFO 8988 --- [nioGroup-3-3] c.m.b.a.business.impl.CreditServiceImpl : Credit exists in database
2022-01-11 02:53:57.537 INFO 8988 --- [nioGroup-3-3] c.m.b.a.business.impl.CreditServiceImpl : Credit has insufficient funds
2022-01-11 02:53:57.537 WARN 8988 --- [nioGroup-3-3] c.m.b.a.business.impl.CreditServiceImpl : Proceeding to abort do operation
2022-01-11 02:55:38.867 INFO 8988 --- [ctor-http-nio-3] c.m.b.a.expose.CreditController : Post operation in /credits/operation/consumes
2022-01-11 02:55:38.868 INFO 8988 --- [ctor-http-nio-3] c.m.b.a.business.impl.CreditServiceImpl : Start to save a new credit consumption for the credit with id: [any-non-existing]
2022-01-11 02:55:38.869 INFO 8988 --- [ctor-http-nio-3] c.m.b.a.business.impl.CreditServiceImpl : End to save a new account operation for the credit with id: [any-non-existing]
2022-01-11 02:55:38.869 INFO 8988 --- [ctor-http-nio-3] c.m.b.a.expose.CreditController : Post operation in /credits/operations/payments/generate-billing-order
2022-01-11 02:58:13.692 INFO 8988 --- [ctor-http-nio-3] c.m.b.a.business.impl.CreditServiceImpl : Start to generate a billing order for the credit with id: [61dd1eff71190468347fid2c]
2022-01-11 02:58:13.692 INFO 8988 --- [ctor-http-nio-3] c.m.b.a.business.impl.CreditServiceImpl : End to generate a new billing order for the credit with id: [61dd1eff71190468347fid2c]
2022-01-11 02:58:13.694 INFO 8988 --- [ctor-http-nio-3] c.m.b.a.business.impl.CreditServiceImpl : Validating credit
2022-01-11 02:58:13.699 INFO 8988 --- [nioGroup-3-3] c.m.b.a.business.impl.CreditServiceImpl : Credit exists in database
2022-01-11 02:58:13.699 INFO 8988 --- [nioGroup-3-3] c.m.b.a.business.impl.CreditServiceImpl : Operation successfully validated
2022-01-11 02:58:13.703 INFO 8988 --- [nioGroup-3-3] c.m.b.a.business.impl.CreditServiceImpl : Generating billing order into credit with id: [61dd1eff71190468347fid2c]
2022-01-11 02:58:13.784 INFO 8988 --- [nioGroup-3-3] c.m.b.a.business.impl.CreditServiceImpl : Generation was successful
2022-01-11 03:05:44.988 INFO 8988 --- [ctor-http-nio-3] c.m.b.a.expose.CreditController : Post operation in /credits/operations/payments/generate-billing-order
2022-01-11 03:05:44.989 INFO 8988 --- [ctor-http-nio-3] c.m.b.a.business.impl.CreditServiceImpl : Start to generate a billing order for the credit with id: [61dd34faa6af8025bba]
2022-01-11 03:05:44.991 INFO 8988 --- [ctor-http-nio-3] c.m.b.a.business.impl.CreditServiceImpl : End to generate a new billing order for the credit with id: [61dd34faa6af8025bba]
2022-01-11 03:05:44.915 INFO 8988 --- [nioGroup-3-3] c.m.b.a.business.impl.CreditServiceImpl : Validating credit
2022-01-11 03:05:44.915 WARN 8988 --- [nioGroup-3-3] c.m.b.a.business.impl.CreditServiceImpl : Credit exists in database
2022-01-11 03:05:44.915 WARN 8988 --- [nioGroup-3-3] c.m.b.a.business.impl.CreditServiceImpl : Customer does not have debts for this credit
2022-01-11 03:05:44.916 WARN 8988 --- [nioGroup-3-3] c.m.b.a.business.impl.CreditServiceImpl : Proceeding to abort billing order generation
```

20. Post generate billing order with error: credit not found:

Credit not found, so a 404-not-found status was returned.

passive-operations-service / Post generate billing order with error: credit not found

Save

POST localhost:8083/api/v1/credits/any-non-existing-credit/generate-billing-order

Send

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies

Body Cookies Headers (1) Test Results

Pretty Raw Preview Visualize Text

Status: 404 Not Found Time: 12 ms Size: 45 B Save Response

1

21. Post pay credit without error:

passive-operations-service / Post pay credit without error

POST localhost:8083/api/v1/credits/operations/payments/dfoe1f32-0559-4578-bbcd-b37a58ed6833

Send

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies

Body Cookies Headers (2) Test Results

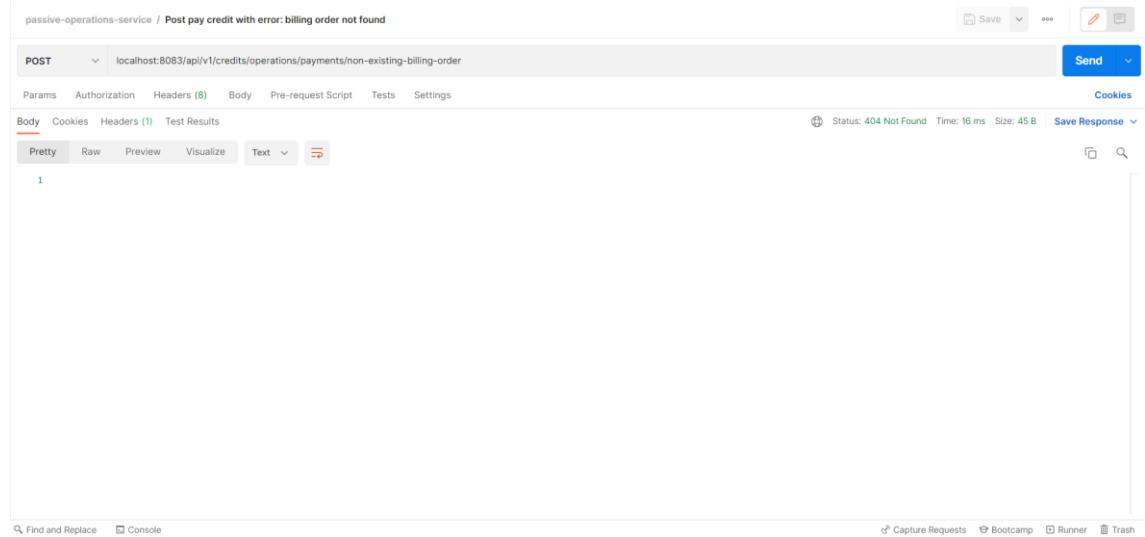
Status: 201 Created Time: 43 ms Size: 763 B Save Response

Pretty Raw Preview Visualize JSON

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```

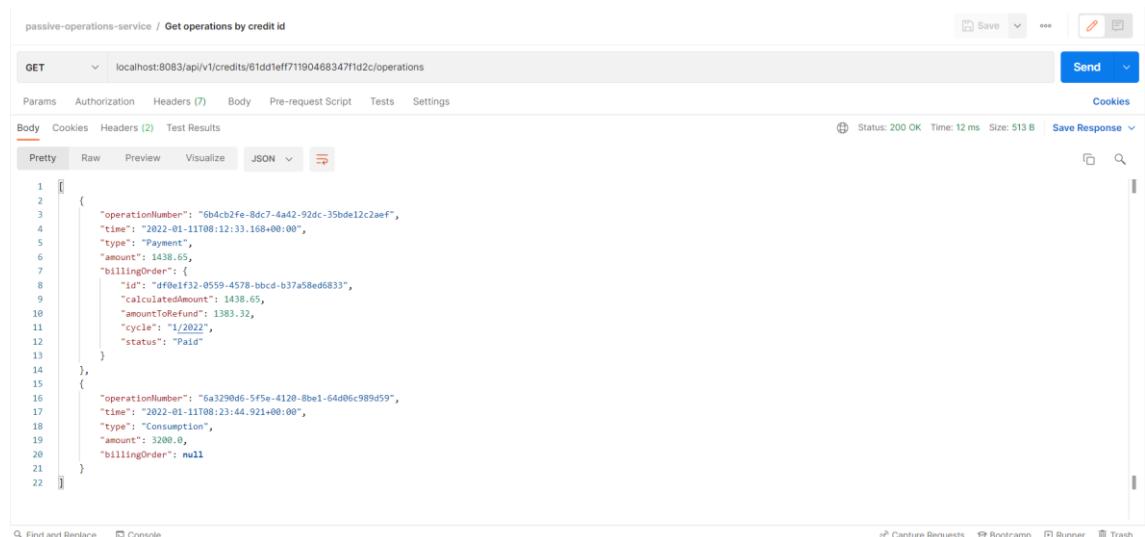
22. Post pay credit with error: billing order not found:

Billing order not found, so a 404-not-found status was returned.



The screenshot shows a Postman request for a POST operation at `localhost:8083/api/v1/credits/operations/payments/non-existing-billing-order`. The response status is 404 Not Found, indicating that the billing order does not exist. The response body is empty.

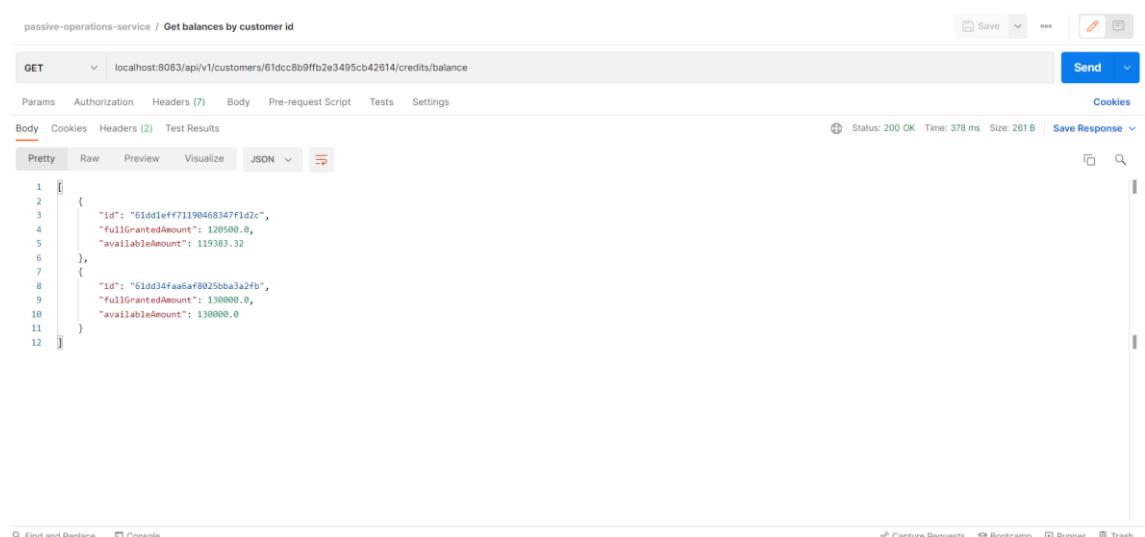
23. Get operations by credit id:



The screenshot shows a GET request for operations by credit id at `localhost:8083/api/v1/credits/61dd1eff71190468347f1d2c/operations`. The response status is 200 OK, and the response body is a JSON array containing two objects representing different types of operations (Payment and Consumption).

```
[{"id": "6b4cb2fe-8dc7-4a42-92dc-35bde12c2ae", "operationNumber": "6b4cb2fe-8dc7-4a42-92dc-35bde12c2ae", "time": "2022-01-11T08:12:33.168+00:00", "type": "Payment", "amount": 1438.65, "billingOrder": {"id": "d0ef1f32-0559-4578-bbcd-b37a58ed6833", "calculatedAmount": 1438.65, "amountToRefund": 1383.32, "cycle": "1/2022", "status": "Paid"}}, {"id": "6a3290d6-5f5e-4120-8be1-64d06c989d59", "operationNumber": "6a3290d6-5f5e-4120-8be1-64d06c989d59", "time": "2022-01-11T08:23:44.921+00:00", "type": "Consumption", "amount": 3200.0, "billingOrder": null}]
```

24. Get balances by customer id:



The screenshot shows a GET request for balances by customer id at `localhost:8083/api/v1/customers/61dd1eff71190468347f1d2c/credits/balance`. The response status is 200 OK, and the response body is a JSON array containing two objects representing different credit balances.

```
[{"id": "61dd1eff71190468347f1d2c", "fullGrantedAmount": 120500.0, "availableAmount": 119383.32}, {"id": "61dd4ffa6ff803bb3a2fb", "fullGrantedAmount": 130000.0, "availableAmount": 130000.0}]
```