

Credit Card System API

API Implementation Details

CREATE ACCOUNT API

localhost:8080/api/accounts/create

POST

Request Payload:

Example 1:

```
{
  "customer": {
    "name": "Test user",
    "email": "user@test.com"
  },
  "cardNumber": 80175553490965,
  "cardActive": false,
  "accountSummary": {
    "totalLimit": 2000,
    "balance": 120,
    "currency": "GBP",
    "balanceType": "Credit"
  }
}
```

Example 2:

```
{
  "customer": {
    "name": "Test user"
  },
  "cardNumber": 80175553490965,
  "accountSummary": {
    "totalLimit": 1000
  }
}
```

Success Response :

```
{
  "id": 7,
  "cardNumber": "80175553490965",
  "cardActive": false,
  "customer": {
    "id": 7,
    "name": "Test user",
    "email": "user@test.com"
  }
}
```

```

    },
    "accountSummary": {
      "totalLimit": 2000,
      "balance": 120,
      "currency": "GBP",
      "balanceType": "Credit",
      "id": 7
    }
  }
}

```

Error Response :

Example 1:

```

{
  "errorCode": "ERR_1005",
  "description": "INVALID_CREDIT_CARD_NUMBER",
  "httpStatus": "BAD_REQUEST",
  "timeStamp": "2021-06-17T19:28:29.7333388+01:00"
}

```

Example 2 :

```

{
  "errorCode": "ERR_1007",
  "description": "INVALID_REQUEST_PARAM",
  "httpStatus": "BAD_REQUEST",
  "timeStamp": "2021-06-17T19:28:50.5659178+01:00"
}

```

GET ACCOUNTS API

localhost:8080/api/accounts/

GET

Response:

```

[
  {
    "id": 1,
    "cardNumber": "2191712435",
    "cardActive": false,
    "customer": {
      "id": 1,
      "name": "Test user 1",
      "email": "user@test.com"
    },
    "accountSummary": {
      "totalLimit": 2000.00,
      "balance": 120.00,

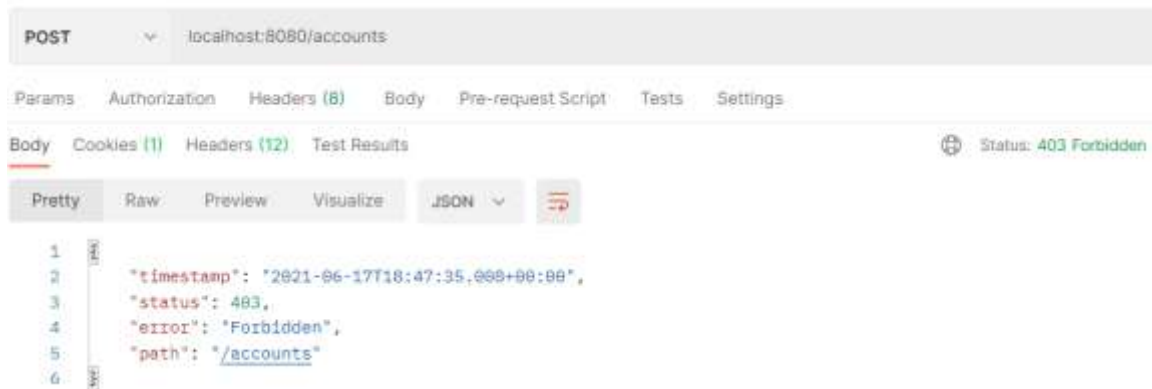
```

```

        "currency": "£",
        "balanceType": "Credit",
        "id": 1
    },
    {
        "id": 2,
        "cardNumber": "80175553490965",
        "cardActive": false,
        "customer": {
            "id": 2,
            "name": "Test user 2",
            "email": "user2@test.com"
        },
        "accountSummary": {
            "totalLimit": 1000.00,
            "balance": 10.00,
            "currency": "£",
            "balanceType": "Debit",
            "id": 2
        }
    }
}
]

```

Unauthorized Endpoint:



POST localhost:8080/accounts

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

Body Cookies (1) Headers (12) Test Results Status: 403 Forbidden

Pretty Raw Preview Visualize JSON

```

1  {
2    "timestamp": "2021-06-17T18:47:35.000+00:00",
3    "status": 403,
4    "error": "Forbidden",
5    "path": "/accounts"
6  }

```

Database & Schema Details

All tables :

```

mysql> show tables;
+-----+
| Tables_in_creditcardsystem |
+-----+
| account                    |
| account_summary            |
| customers                  |
| hibernate_sequence         |
+-----+

```

Customers :

```
mysql> desc customers;
```

Field	Type	Null	Key	Default	Extra
id	bigint	NO	PRI	NULL	auto_increment
email	varchar(255)	YES		NULL	
name	varchar(50)	YES		NULL	

Accounts :

Field	Type	Null	Key	Default	Extra
id	bigint	NO	PRI	NULL	
card_active	tinyint(1)	YES		0	
card_number	varchar(255)	NO		NULL	
customer_id	bigint	NO	MUL	NULL	

Account Summary :

Field	Type	Null	Key	Default	Extra
account_id	bigint	NO	PRI	NULL	
balance	decimal(19,2)	YES		NULL	
balance_type	varchar(255)	YES		NULL	
currency	varchar(255)	YES		NULL	
total_limit	decimal(19,2)	YES		NULL	

Sample Data :

```
mysql> select * from customers;
```

id	email	name
1	user@test.com	Test user 1
2	user2@test.com	Test user 2

2 rows in set (0.00 sec)

```
mysql> select * from account;
```

id	card_active	card_number	customer_id
1	0	aX9BuKuWbrtTn0aax/MYCw==	1
2	0	YQjMe2SPiTIadv7J4MQ+0A==	2

2 rows in set (0.00 sec)

```
mysql> select * from account_summary;
```

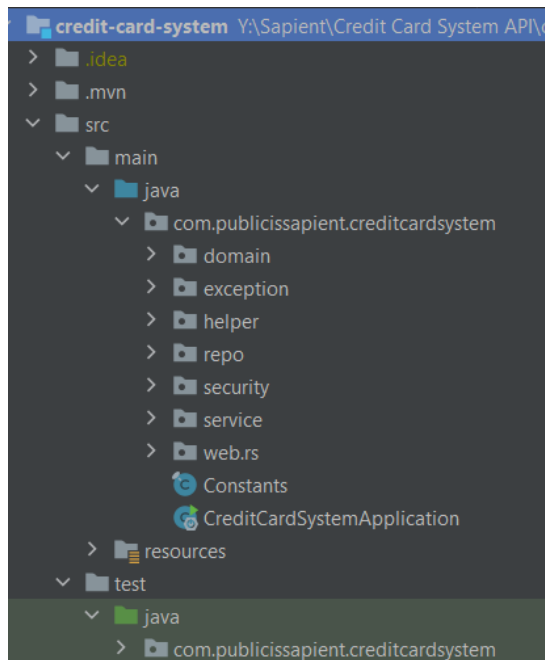
account_id	balance	balance_type	currency	total_limit
1	120.00	Credit	£	2000.00
2	10.00	Debit	£	1000.00

2 rows in set (0.02 sec)

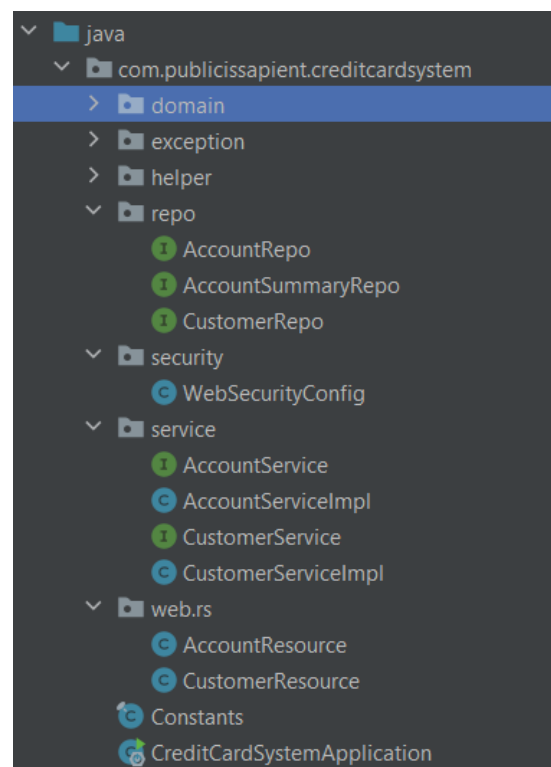
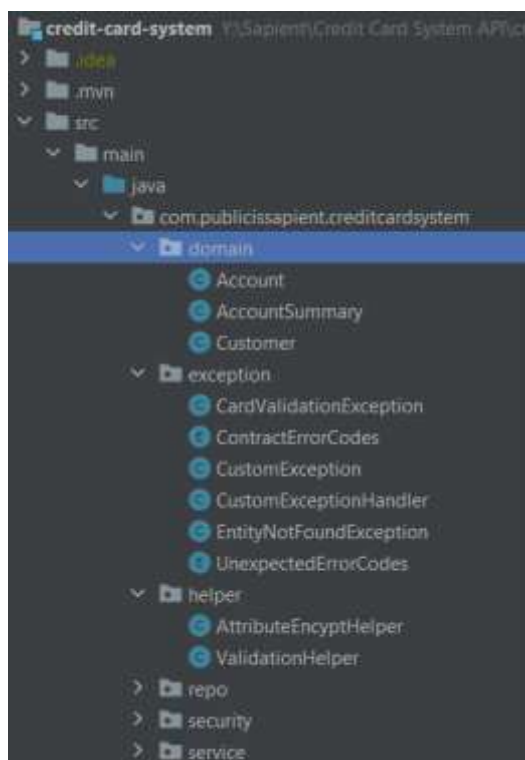
Source Code

<https://github.com/nainyogita/ps-credit-card-system>

Directory Structure :

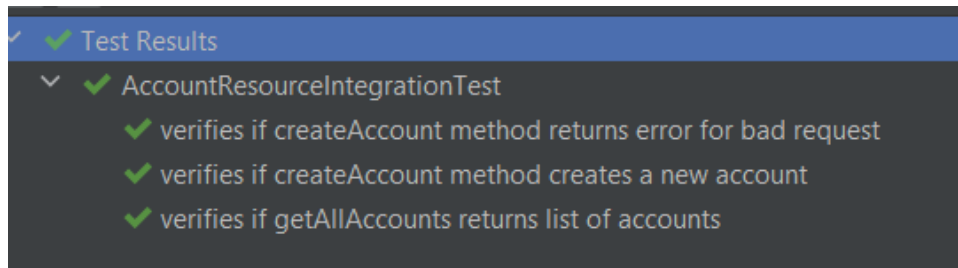


Source Files :



Unit and Integration Testing :

Integration Tests:



Unit Tests:

