

FLOW

Evidências de Testes

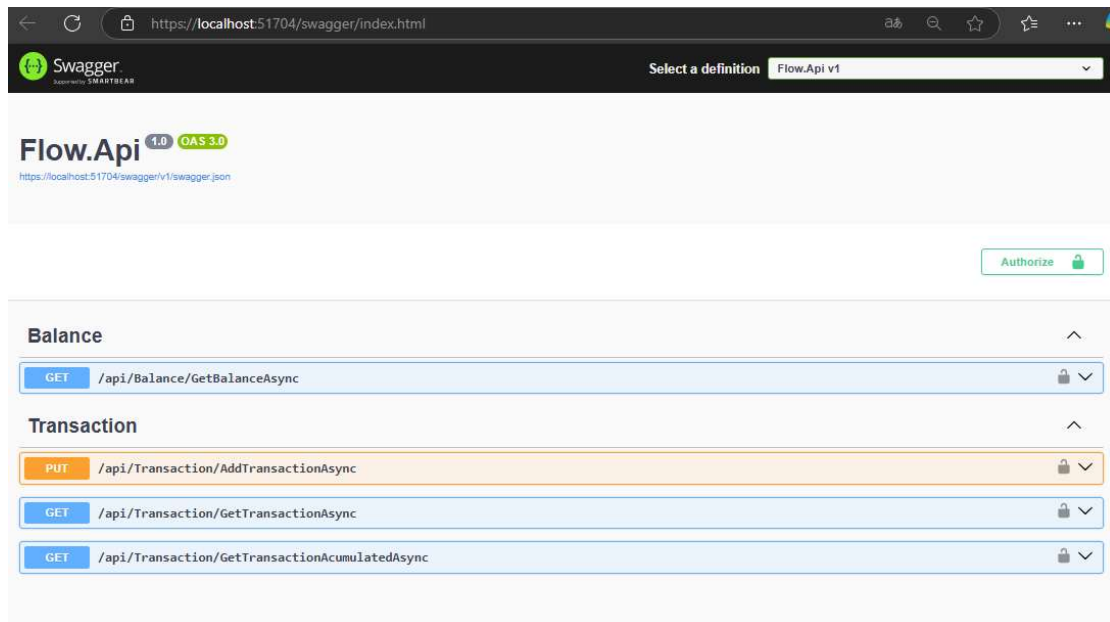
Testes com FlowAPI

.net9

Nome	Data de modificação
.vs	17/03/2025 11:47
Flow.Api	17/03/2025 11:47
Flow.Domain	17/03/2025 11:47
Flow.Repository	17/03/2025 11:47
Flow.Services	17/03/2025 11:47
Flow.Shared	17/03/2025 11:47
Flow.Tests	17/03/2025 11:47
FlowApi.sln	16/03/2025 14:02

Base utilizada AWS RDS.

Swagger



Acesso sem token (bloqueado)



Gerando token

Aplicativo criado na AZURE com essa finalidade.

Utilizando postman para gerar o BEARER.

Token Name	default
Grant type	Client Credentials
Access Token URL ⓘ	https://login.microsoftonline.com/43f51790 ...
Client ID ⓘ	b052727f-08ae-4469-a8ec-a97bd8ad71 ⚠
Client Secret ⓘ	8Ac8Q~9YUXq_PfZ8V4uYjY-wpxYYLvMt ⚠
Scope ⓘ	api://b052727f-08ae-4469-a8ec-a97bd8a...
Client Authentication ⓘ	Send as Basic Auth header

Token gerado:

The screenshot shows a web interface for managing access tokens. At the top, there's a header 'MANAGE ACCESS TOKENS' with a close button. Below it, there's a sidebar with a list of tokens, each labeled 'default'. The main area is divided into two sections: 'Token Details' and 'Use Token'. The 'Token Details' section shows the 'Token Name' as 'default' and the 'Access Token' as a long alphanumeric string. The 'Use Token' button is orange and located to the right of the 'Token Details' section.

Consultando saldo, acessando com token

Antes, precisamos também logar via SSO:

```
C:\Users\Luciano>aws sso login
Attempting to automatically open the SSO authorization page in your default browser.
If the browser does not open or you wish to use a different device to authorize this request, open
https://d-9067cbb04e.awsapps.com/start/#/device

Then enter the code:

RRWR-KWPG
```

Isso devido à necessidade de capturar o SECRET que armazena senha do banco.

Conteúdo da base:

Insira uma expressão SQL para filtrar os resultados (use Ctrl+Espaço)							
id	branch	account	dateref	totaldebit	totalcredit	createdat	tracekey
c7798a26-25eb-457f-0001	0001	000400019	2025-03-07	0		3 16 22:35:12.272 -0300	b5666143-0f9c-44f0
2004ac4b-8743-4d30-0001	0001	000400019	2025-03-09	0		4 16 22:35:29.184 -0300	b5666143-0f9c-44f0
2e1266e9-5754-4c39-0001	0001	000400019	2025-03-08	0		12 16 22:35:22.675 -0300	b5666143-0f9c-44f0

Resultado da busca com BEARER:

GET

/api/Balance/GetBalanceAsync

Parameters

Name	Description
Branch	
string	0001
(query)	
Account	
string	000400019
(query)	
DateRefStart	
string(\$date-time)	2025-03-07
(query)	
DateRefEnd	
string(\$date-time)	2025-03-07
(query)	
TraceKey	
string	TraceKey
(query)	

Execute

Retorno:

Request URL	
https://localhost:51704/api/Balance/GetBalanceAsync?Branch=0001&Account=000400019&DateRefStart=2025-03-07&DateRefEnd=2025-03-07	
Server response	
Code	Details
200	<div>Response body</div> <pre>[{ "id": "c7798a26-25eb-457f-8a5e-08792baa92be", "branch": "0001", "account": "000400019", "dateRef": "2025-03-07T00:00:00", "totalDebit": 0, "totalCredit": 3, "accumulatedDebit": 0, "accumulatedCredit": 3, "accumulatedBalance": 3, "createdAt": "2025-03-17T01:35:12.272538Z", "traceKey": "b5666143-0f9c-44f0-906e-c4968800e4e1" }]</pre> <div>Response headers</div> <pre>content-type: application/json; charset=utf-8 date: Mon, 17 Mar 2025 22:26:43 GMT server: Kestrel</pre>
Responses	

Consultando saldo por tracekey

Request URL	
https://localhost:51704/api/Balance/GetBalanceAsync?DateRefStart=2025-03-07&DateRefEnd=2025-03-07&TraceKey=b5666143-0f9c-44f0-906e-c4968800e4e1	
Server response	
Code	Details
200	<div>Response body</div> <pre>[{ "id": "c7798a26-25eb-457f-8a5e-08792baa92be", "branch": "0001", "account": "000400019", "dateRef": "2025-03-07T00:00:00", "totalDebit": 0, "totalCredit": 3, "accumulatedDebit": 0, "accumulatedCredit": 3, "accumulatedBalance": 3, "createdAt": "2025-03-17T01:35:12.272538Z", "traceKey": "b5666143-0f9c-44f0-906e-c4968800e4e1" }]</pre> <div>Response headers</div>

Consultando saldo sem uma das datas, as duas são obrigatórias

Code	Details
400 <i>Undocumented</i>	Error: response status is 400 Response body <pre>{ "isValid": false, "errors": [{ "propertyName": "DateRefEnd", "errorMessage": "'Date Ref End' deve ser informado.", "attemptedValue": null, "customState": null, "severity": 8, "errorCode": "NotEmptyValidator", "formattedMessagePlaceholderValues": { "PropertyName": "Date Ref End", "PropertyValue": null, "PropertyPath": "DateRefEnd" } }], "ruleSetsExecuted": ["default"] }</pre>

Teste de inclusão de transação

Transaction

PUT

/api/Transaction/AddTransactionAsync

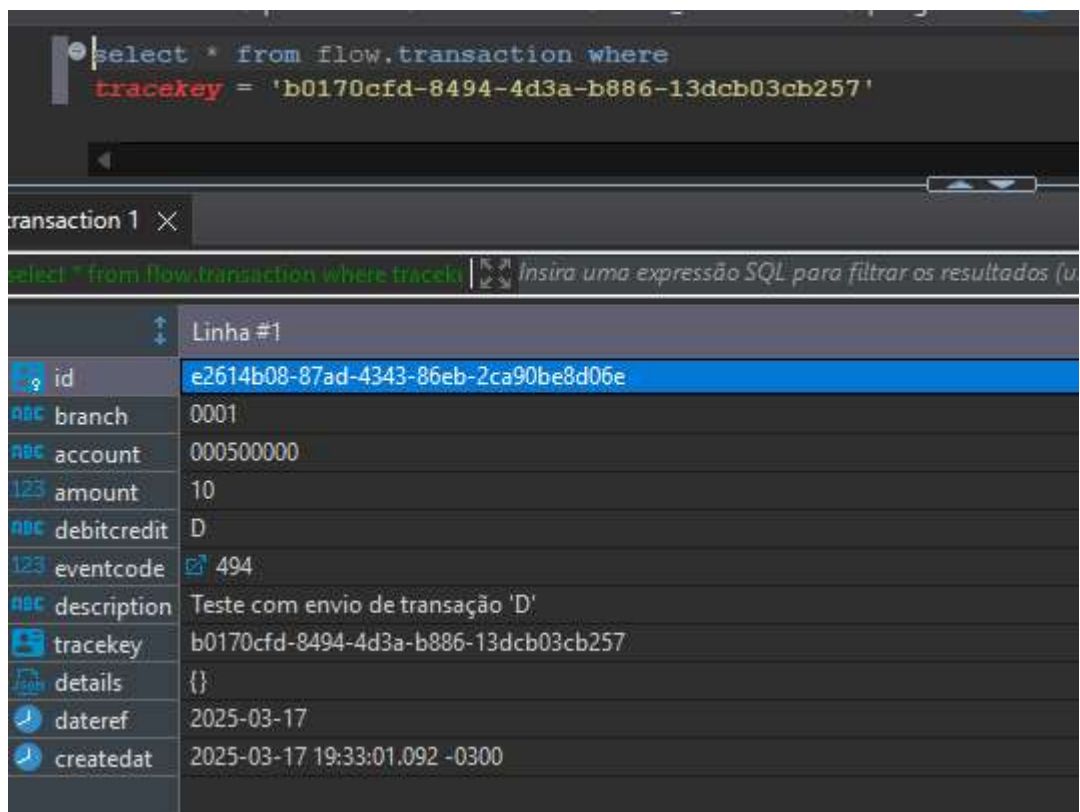
Parameters

Name	Description
Branch string (query)	<input type="text" value="0001"/>
Account string (query)	<input type="text" value="000500000"/>
Amount number(\$double) (query)	<input type="text" value="10"/>
DebitCredit string (query)	<input type="text" value="D"/>
EventCode integer(\$int32) (query)	<input type="text" value="494"/>
Description string (query)	<input type="text" value="Teste com envio de transação 'D'"/>
TraceKey string (query)	<input type="text" value="b0170cfd-8494-4d3a-b886-13dcb03cb257"/>
Details string (query)	<input type="text" value="🔗"/>
DateRef string(\$date-time) (query)	<input type="text" value="2025-03-17"/>

Resultado:



Vendo na base após criação:



Conferência do saldo após criação da transação, pela própria interface

Request URL	
https://localhost:51704/api/Balance/GetBalanceAsync?Branch=0001&Account=000500000&DateRefStart=2025-03-17&DateRefEnd=2025-03-17	
Server response	
Code	Details
200	<p>Response body</p> <pre>[{ "id": "4ef92f64-3df2-4324-881d-599699a45295", "branch": "0001", "account": "000500000", "dateRef": "2025-03-17T00:00:00", "totalDebit": 10, "totalCredit": 0, "accumulatedDebit": 10, "accumulatedCredit": 0, "accumulatedBalance": -10, "createdAt": "2025-03-17T22:33:01.09223Z", "traceKey": "b0170cfd-8494-4d3a-b886-13dcb03cb257" }]</pre>

Consulta de transação pelo tracekey

GET
/api/Transaction/GetTransactionAsync

Parameters

Name	Description
Branch string (query)	Branch
Account string (query)	Account
DateRefStart string(\$date-time) (query)	2025-03-17
DateRefEnd string(\$date-time) (query)	2025-03-17
TraceKey string (query)	b0170cfd-8494-4d3a-b886-13dcb03cb257

Resultado:

Code
Details

200

Response body

```
[
  {
    "id": "e2614b08-87ad-4343-86eb-2ca90be8d06e",
    "branch": "0001",
    "account": "000500000",
    "amount": 10,
    "debitCredit": "D",
    "eventCode": 494,
    "description": "Teste com envio de transação 'D'",
    "traceKey": "b0170cfd-8494-4d3a-b886-13dcb03cb257",
    "details": "{}",
    "dateRef": "2025-03-17T00:00:00",
    "createdAt": "2025-03-17T22:33:01.09223Z"
  }
]
```

Response headers

Consulta de extrato

Achei um erro nos testes!!

Bom para exemplificar DOCUMENTAÇÃO.

TODO: Esse TRACEKEY não deveria estar aqui. Será necessário ajuste de parâmetros de entrada da consulta de saldo.

TODO: Ajuste de nome seria aconselhável, tem beforeBalance, ideal seria algo similar, afterBalance. Seria mais intuitivo.

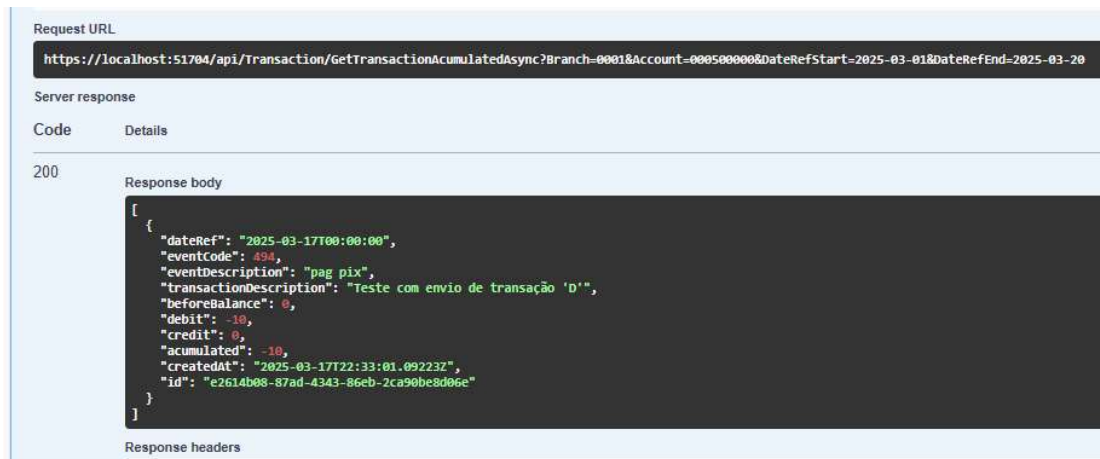
GET /api/Transaction/GetTransactionAcumulatedAsync

Parameters

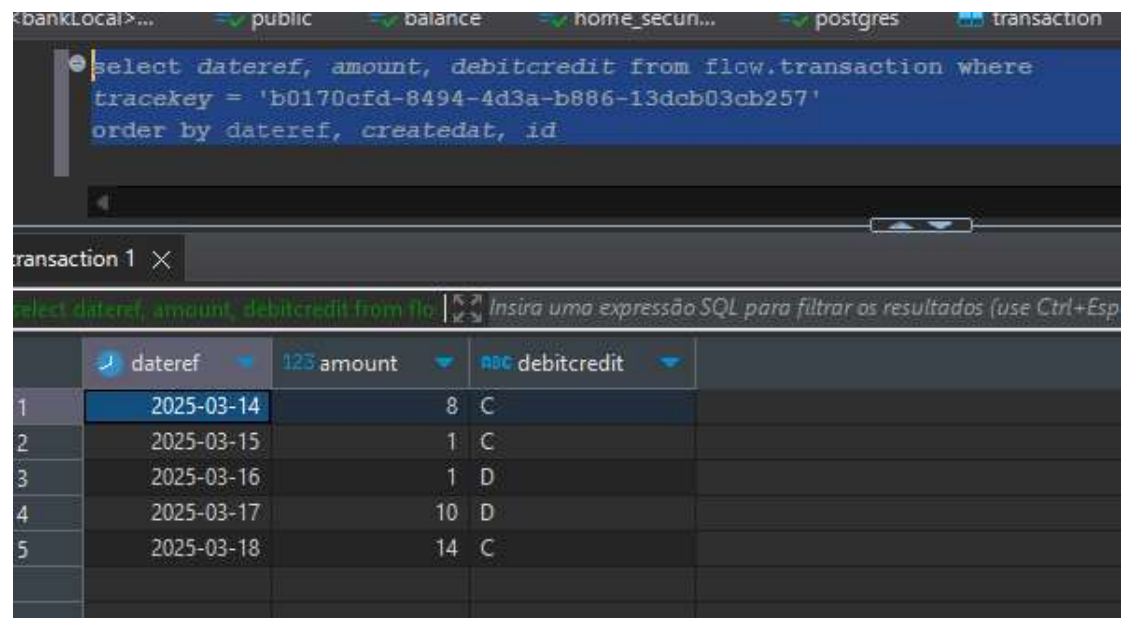
Name	Description
Branch string (query)	0001
Account string (query)	000500000
DateRefStart string(\$date-time) (query)	2025-03-01
DateRefEnd string(\$date-time) (query)	2025-03-20
TraceKey string (query)	TraceKey

Mesmo assim funciona:

Observação para o fato de retornar saldo anterior e saldo atual.



Teste de extrato com vários registros



(mesma agência e conta)

saldo... 12

Visualização no extrato, CORRETO..

```
[
  {
    "dateRef": "2025-03-14T00:00:00",
    "eventCode": 494,
    "eventDescription": "pag pix",
    "transactionDescription": "descrição com valor do lançamento...+8",
    "beforeBalance": 0,
```

```

    "debit": 0,
    "credit": 8,
    "accumulated": 8,
    "createdAt": "2025-03-17T22:43:23.951411Z",
    "id": "800d9aa8-43d5-4253-85a7-c944d477e089"
  },
  {
    "dateRef": "2025-03-15T00:00:00",
    "eventCode": 494,
    "eventDescription": "pag pix",
    "transactionDescription": "descrição com valor do lançamento...+1",
    "beforeBalance": 8,
    "debit": 0,
    "credit": 1,
    "accumulated": 9,
    "createdAt": "2025-03-17T22:43:36.329586Z",
    "id": "872afb86-5bd4-475b-806b-a7028460a915"
  },
  {
    "dateRef": "2025-03-16T00:00:00",
    "eventCode": 494,
    "eventDescription": "pag pix",
    "transactionDescription": "descrição com valor do lançamento...-1",
    "beforeBalance": 9,
    "debit": -1,
    "credit": 0,
    "accumulated": 8,
    "createdAt": "2025-03-17T22:42:41.19838Z",
    "id": "342d8bd1-f8ef-4296-a800-039a461b87e2"
  },
  {
    "dateRef": "2025-03-17T00:00:00",
    "eventCode": 494,
    "eventDescription": "pag pix",
    "transactionDescription": "Teste com envio de transação 'D'",
    "beforeBalance": 8,
    "debit": -10,
    "credit": 0,
    "accumulated": -2,
    "createdAt": "2025-03-17T22:33:01.09223Z",
    "id": "e2614b08-87ad-4343-86eb-2ca90be8d06e"
  },
  {
    "dateRef": "2025-03-18T00:00:00",
    "eventCode": 494,
    "eventDescription": "pag pix",
    "transactionDescription": "descrição com valor do lançamento...+14",
    "beforeBalance": -2,
    "debit": 0,
    "credit": 14,
    "accumulated": 12,
    "createdAt": "2025-03-17T22:43:04.257982Z",
    "id": "c1198aac-971d-4ada-8e71-1cafae458520"
  }
]

```

