Newman Report

Collection	End-to-End Tests
Description	• The collection features end-to-end tests that ensure the Interoperable Bank API components function in an expected sequence. Check out the collection description for more information about the collection variables and requests. https://www.postman.com/postman-partner-eng/bank-api/collection/ug0ldqq/end-to-end-tests?tab=description • The collection uses the Newman CLI to run the tests. Check out the Newman documentation for more information about the CLI options. • Use the Postman Insights feature to monitor the API. 24/7 Coverage! The Network Interoperable Bank Services team is responsible for ensuring that the Interoperable Bank API is always available and functions as expected. We use Postman Insights to monitor the API, track its health, and receive alerts when issues arise. Insights provides real-time visibility into the API's performance, helps us quickly identify and resolve issues, and ensures that the API meets its service-level objectives (SLOs). • Postman Insights Integration: The collection includes a Postman Insights integration that automatically captures and analyzes API traffic. Insights learns the API's behavior, monitors for anomalies, and provides alerts when issues are detected. • Insights Configuration: The collection is configured with Insights to track specific metrics, including response times, error rates, and endpoint availability. Alerts are set up to notify the team when these metrics exceed predefined thresholds. • Monitoring and Alerts: The team uses Postman Insights to monitor the API in real-time. We receive alerts via Slack when issues are detected, allowing us to quickly respond to and resolve any issues that may impact the API's performance or availability. • Collaboration: The team uses Postman's collaboration features to share insights and alerts with the rest of the team, ensuring that everyone is aware of the API's performance and can work together to address any issues that arise. • Continuous Improvement: We use the data from Postman Insights to identify areas for improvement in the API and to track the effectiveness of our efforts to improve the API's performance and reliability over time.
Version	2.1
Exported with	Newman v5.3.1

	Total	Failed
Iterations	1	0
Requests	25	0
Prerequest Scripts	25	0
Test Scripts	50	0
Assertions	50	0

Total run duration:	23.9s
Total data received:	1.1MB (approx)
Average response time:	424ms

Total Failures 0

Requests

Process a VALID transaction

[Setup][1] Generate a New API Key

Description	This request generates a new API Key and saves it to the collection variables if the request is successful
Method URL	GET https://temp.bank.postman.co/v1/create/auth

Mean time per request	2.9s
Mean size per request	438
Total passed tests	4
Total failed tests	0
Status code	200

Tests

Name	Pass count	Fail count
Public-level status check	1	0
Should return a object	1	0
Should contain the 'apikey' property in the response	1	0
Should return a string for the 'apikey' property	1	0

[2] Create A New Account (Fromhkcloud)

Description	Generates a new account ("fromhkcloud"), that the funds will be transferred from, and saves the following information if the request is successful: - Account owner from the request body (used as collection variable: v2b_user_name_from) - Account # from the response body (used as collection variable: v2b_user_account_id_from)
Method URL	POST https://temp.bank.postman.co/v2/accounts

Mean time per request	284ms
Mean size per request	258
Total passed tests	4
Total failed tests	0
Status code	201

Tests

Name	Pass count	Fail count
Public-level status check	1	0
Should have a valid JSON format response body	1	0
Should have the required 'account' object in the response	1	0
Should have the '_id' property in the account object sent in a non-negative integer	1	0

[3] Create A New Account (Tofxcloud)

Description	Generates another new account ("tofxcloud"), that the funds will be transferred to, and saves the following information if the request is successful: - Account owner from the request body (used as collection variable: v2b_user_name_to) - Account # from the response body (used as collection variable: v2b_user_account_id_to)
Method URL	POST https://temp.bank.postman.co/v2/accounts

Mean time per request	284ms
Mean size per request	258
Total passed tests	4
Total failed tests	0
Status code	201

Tests

Name	Pass count	Fail count
Public-level status check	1	0
Should have a valid JSON format response body	1	0
Should have the required 'account' object in the response	1	0
Should have the '_id' property in the account object sent in a non-negative integer	1	0

[4] Get All User Accounts To Confirm Creation Of Users

Description	Get a list of all accounts to ensure the accounts were created and saved correctly.
Method URL	GET https://temp.bank.postman.co/v2/accounts

Mean time per request	286ms
Mean size per request	2738
Total passed tests	4
Total failed tests	0
Status code	200

Tests

Name	Pass count	Fail count
Public-level status check	1	0
Should contain an accounts 'array' in the response	1	0
Should return the correct account data for the 'fromhkcloud' user	1	0
Should return the correct account data for the 'tofxcloud' user	1	0

[5] Create A New Transaction Between The Users

Description	Create a new transaction between the 'fromhkcloud' and 'tofxcloud'
Method URL	POST https://temp.bank.postman.co/v2/transactions

Mean time per request	304ms
Mean size per request	408
Total passed tests	2
Total failed tests	0
Status code	200

Tests

Name	Pass count	Fail count
Public-level status check	1	0
Should display a successful transaction message	1	0

[6] Get All Transactions To The Tofxcloud

Description	Get a list of all transactions to and from the 'tofxcloud'
Method URL	GET https://temp.bank.postman.co/v2/transactions/?ufcx=cmd0h7ZRDZ8xn

Mean time per request	267ms
Mean size per request	2588
Total passed tests	3
Total failed tests	0
Status code	200

Tests

Name	Pass count	Fail count
Public-level status check	1	0
Should contain a transactions 'array' in the response	1	0
Should return the correct transaction data for the 'tofxcloud' user	1	0

[7] Get A Single Transaction

Description	Get the details of an individual transaction, using the first transaction in from the list of transactions obtained in step [6].
Method URL	GET https://temp.bank.postman.co/v2/transactions/:id?ufcx=cmd0h7ZRDZ8xn	

Mean time per request	286ms
Mean size per request	2328
Total passed tests	3
Total failed tests	0
Status code	200

Tests

Name	Pass count	Fail count
Public-level status check	1	0
Should contain a transactions 'array' in the response	1	0
Should return the correct transaction data for the 'tofxcloud' user	1	0

[8] Get Users Current Balance - Tofxcloud

Description	Confirm the balance of the 'tofxcloud' matches the expected value after the transaction.
Method URL	GET https://temp.bank.postman.co/v2/accounts/:id?ufcx=cmd0h7ZRDZ8xn

Mean time per request	266ms
Mean size per request	2498
Total passed tests	6
Total failed tests	0
Status code	200

Tests

Name	Pass count	Fail count
Public-level status check	1	0
Should contain a account 'object' in the response	1	0
Should contain the correct account id in the response	1	0
Should contain the correct owner in the response	1	0
Should contain the correct balance in the response	1	0
Should contain the correct currency in the response	1	0

[9] Get Users Current Balance - Fromhkcloud

Description	Confirm the balance of the 'fromhkcloud' matches the expected value after the transaction.
Method URL	GET https://temp.bank.postman.co/v2/accounts/:id?ufcx=cmd0h7ZRDZ8xn

Mean time per request	266ms
Mean size per request	2498
Total passed tests	6
Total failed tests	0
Status code	200

Tests

Name	Pass count	Fail count
Public-level status check	1	0
Should contain a account 'object' in the response	1	0
Should contain the correct account id in the response	1	0
Should contain the correct owner in the response	1	0
Should contain the correct balance in the response	1	0
Should contain the correct currency in the response	1	0

[Teardown][10] Delete The User Account - Tofxcloud

Description	Delete the 'tofxcloud' account to clean up after this test case.
Method URL	DELETE https://temp.bank.postman.co/v2/accounts/:id?ufcx=cmd0h7ZRDZ8xn

Mean time per request	261ms
Mean size per request	248
Total passed tests	1
Total failed tests	0
Status code	200

Tests

Name	Pass count	Fail count
Public-level status check	1	0

[Teardown][11] Delete The User Account - Fromhkcloud

Description	Delete the 'fromhkcloud' account and clear out the collection variables we created during the test case.
Method URL	DELETE https://temp.bank.postman.co/v2/accounts/:id?ufcx=cmd0h7ZRDZ8xn

Mean time per request	266ms
Mean size per request	248
Total passed tests	1
Total failed tests	0
Status code	200

Tests

Name	Pass count	Fail count
Public-level status check	1	0

Attempt an INVALID transaction

[Setup][12] Generate a New API Key

Description	This request generates a new API Key and saves it to the collection variables if the request was successful
Method URL	GET https://temp.bank.postman.co/v1/create/auth

Mean time per request	266ms
Mean size per request	438
Total passed tests	4
Total failed tests	0
Status code	200

Tests

Name	Pass count	Fail count
Public-level status check	1	0
Should return a object	1	0
Should contain the 'apikey' property in the response	1	0
Should return a string for the 'apikey' property	1	0

[13] Create A New Account (Fromhkcloud)

Description	Generates a new account ("fromhkcloud"), that the funds will be transferred from, and saves the following information if the request is successful: - Account owner from the request body (used as collection variable: v2b_user_name_from) - Account # from the response body (used as collection variable: v2b_user_account_id_from)
Method URL	POST https://temp.bank.postman.co/v2/accounts

Mean time per request	284ms
Mean size per request	258
Total passed tests	4
Total failed tests	0
Status code	201

Tests

Name	Pass count	Fail count
Public-level status check	1	0
Should have a valid JSON format response body	1	0
Should have the required 'account' object in the response	1	0
Should have the '_id' property in the account object sent in a non-negative integer	1	0

[14] Create A New Account (Tofxcloud)

Description	Generates another new account ("tofxcloud"), that the funds will be transferred to, and saves the following information if the request is successful: - Account owner from the request body (used as collection variable: v2b_user_name_to) - Account # from the response body (used as collection variable: v2b_user_account_id_to)
Method URL	POST https://temp.bank.postman.co/v2/accounts

Mean time per request	267ms
Mean size per request	258
Total passed tests	4
Total failed tests	0
Status code	201

Tests

Name	Pass count	Fail count
Public-level status check	1	0
Should have a valid JSON format response body	1	0
Should have the required 'account' object in the response	1	0
Should have the '_id' property in the account object sent in a non-negative integer	1	0

[15] Get All User Accounts To Confirm Creation Of Users

Description	Get a list of all accounts to ensure the accounts were created and saved correctly.
Method URL	GET https://temp.bank.postman.co/v2/accounts

Mean time per request	266ms
Mean size per request	2738
Total passed tests	4
Total failed tests	0
Status code	200

Tests

Name	Pass count	Fail count
Public-level status check	1	0
Should contain an accounts 'array' in the response	1	0
Should return the correct account data for the 'fromhkcloud' user	1	0
Should return the correct account data for the 'tofxcloud' user	1	0

[16] Create A New Transaction with Insufficient Funds

Description	Create a new transaction between the 'fromhkcloud' and 'tofxcloud'. We are expecting this to fail as there are insufficient funds in the 'fromhkcloud'.
Method URL	POST https://temp.bank.postman.co/v2/transactions

Mean time per request	267ms
Mean size per request	2518
Total passed tests	3
Total failed tests	0
Status code	400

Tests

Name	Pass count	Fail count
Status code is 400	1	0
Should return an error 'invalidRights'	1	0
Response has the required fields	1	0

[17] Get All Transactions To The Tofxcloud

Description	Get a list of transactions to and from the 'tofxcloud', and ensure there are no transactions.
Method URL	GET https://temp.bank.postman.co/v2/transactions/?ufcx=cmd0h7ZRDZ8xn

Mean time per request	267ms
Mean size per request	298
Total passed tests	2
Total failed tests	0
Status code	200

Tests

Name	Pass count	Fail count
Status check	1	0
Should contain an empty transactions 'array' in the response	1	0

[18] Check Tofxcloud Balance Unchanged

Description	Get more information about the 'tofxcloud', and check that the account balance remains unchanged after the failed transaction.
Method URL	GET https://temp.bank.postman.co/v2/accounts/:id?ufcx=cmd0h7ZRDZ8xn

Mean time per request	266ms
Mean size per request	2498
Total passed tests	6
Total failed tests	0
Status code	200

Tests

Name	Pass count	Fail count
Status check	1	0
Should contain a account 'object' in the response	1	0
Should contain the correct account id in the response	1	0
Should contain the correct owner in the response	1	0
Should contain the correct balance in the response	1	0
Should contain the correct currency in the response	1	0

[19] Check Fromhkcloud Balance Unchanged

Description	Get more information about the 'fromhkcloud', and confirm the balance of the 'fromhkcloud' remains unchanged after the failed transaction.
Method URL	GET https://temp.bank.postman.co/v2/accounts/:id?ufcx=cmd0h7ZRDZ8xn

Mean time per request	266ms
Mean size per request	2498
Total passed tests	6
Total failed tests	0
Status code	200

Tests

Name	Pass count	Fail count
Status check	1	0
Should contain a account 'object' in the response	1	0
Should contain the correct account id in the response	1	0
Should contain the correct owner in the response	1	0
Should contain the correct balance in the response	1	0
Should contain the correct currency in the response	1	0

[Teardown][20] Delete The User Account - Tofxcloud

Description	Delete the 'tofxcloud' account to clean up after this test case.
Method URL	DELETE https://temp.bank.postman.co/v2/accounts/:id?ufcx=cmd0h7ZRDZ8xn

Mean time per request	266ms
Mean size per request	248
Total passed tests	1
Total failed tests	0
Status code	200

Tests

Name	Pass count	Fail count
Public-level status check	1	0

[Teardown][21] Delete The User Account - Fromhkcloud

Description	Delete the 'fromhkcloud' account and clear out the collection variables we created during the test case.
Method URL	DELETE https://temp.bank.postman.co/v2/accounts/:id?ufcx=cmd0h7ZRDZ8xn

Mean time per request	266ms
Mean size per request	248
Total passed tests	1
Total failed tests	0
Status code	200

Tests

Name	Pass count	Fail count
Public-level status check	1	0