Block Explorer

PoP Explore

User

Home BlockExplorer

Services

view details Block → View Details Block → Block detains by number

view details Transaction → View Details Transactions → Transaction Detail by hash

search field wallet → Search Address → transactions (from / to) by wallet

wallet → Wallet Balance

System API

Peers Nodes / Signers → Network Services → Returns

balance

Total Supply → Token Service → Returns

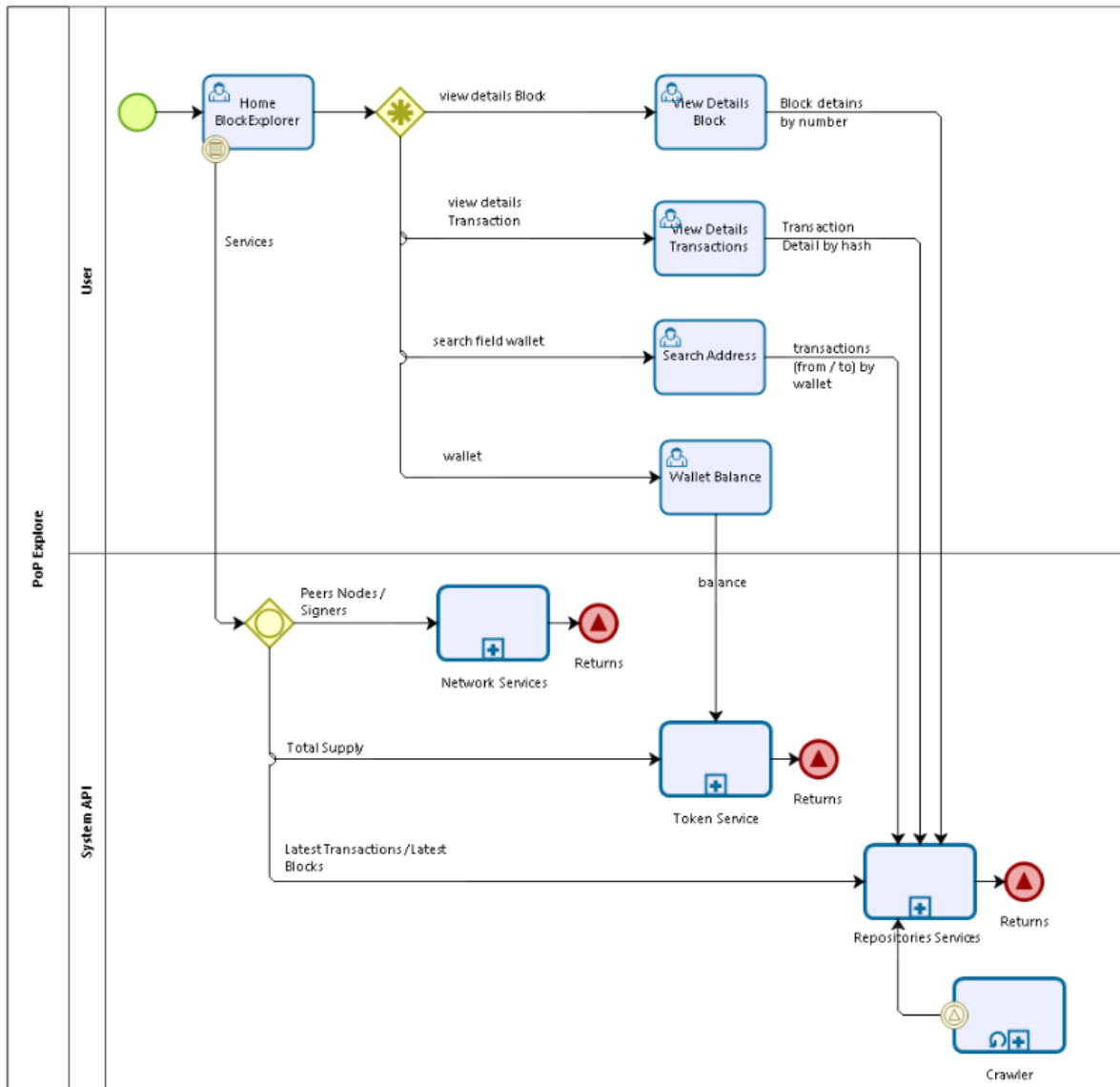Latest Transactions / Latest Blocks → Repositories Services → Returns

Crawler

Acceptance criteria:

View the activity of the permissioned network:

- blocks created
- transactions generated
- number of connected peers
- number of connected signers
- total SPL supply

Search details of:

- transactions with his hash number
- transactions for an address
- block by blockNumber
- block by blockHash
- address balance SPL

Features

Searches

- Balance SPL account
- Transaction hash
- Block hash
- Block number

Home BlockExplorer

- Summary of the key metrics for the network
  - Lastest transctions and blocks
  - Total suply SPL
  - Total Peers nodes
  - Total signers

Transaction Details

- View the details of individual transactions
- Transaction Objects:

blockHash	Data, 32 bytes	Hash of the block containing this transaction. `null` when transaction is pending.
from	Data, 20 bytes	Address of the sender.
hash	Data, 32 bytes	Hash of the transaction.
to	Data, 20 bytes	Address of the receiver. `null` if a contract creation transaction.
value	Quantity	Value transferred, in SPL
status	Quantity	Either `0x1` (success) or `0x0` (failure)
time	Quantity	Unix timestamp for transaction.
type		Transaction type: mint, tranfer

Block Details

- View provides details of all blocks being generated on the network.
- Block Objects:

size	Quantity, Integer	Size of block in bytes.
signers	Array	Signature hash.
time	Quantity	Unix timestamp for block assembly.
hash	*Data*, 32 bytes	Hash of the block. `null` when block is pending.
transactions	Array	Array of transaction objects, or 32 byte transaction hashes depending on the specified boolean parameter.
height	Quantity	Number of block that includes the log. `null` when log is pending.

Features Details

```
@Information_Network
In order to I want see network activity
As a user I want to access network information

Scenario: view network information
    Given I can access BlockExplorer home_page
    Then I see <TotalSuplySPL>
    And I see <PeersNode>
    And I see <Signers>
    And I see <LastestBlocks>
    And I see <LastestTransactions>


Background: Access BlockExplorer page
Given I am home page BlockExplorer

@Search_Block_By_Hash
In order to I need to find a block
As a user I want to search with a blockHash

Scenario: search with a valid block hash
    Given I fill search field with <blockHash>
    When I click 'Enter'
    Then I see 'Block Details page'

Scenario: search with a invalid block hash
    Given I fill search field with <blockHash>
    When I click 'Enter'
    Then I see 'Warning message'

@Search_Block_By_Number
In order to I need to find a block
As a user I want to search with a blockNumber

Scenario: search with a valid block number
    Given I fill search field with <blockNumber>
    When I click 'Enter'
    Then I see 'Block Details page'

Scenario: search with a invalid block number
    Given I fill search field with <blockNumber>
    When I click 'Enter'
    Then I see 'Warning message'

@Search_Transaction_By_Hash
In order to I need to find a transaction
As a user I want to search with a transactionHash

Scenario: search with a valid transaction hash
    Given I fill search field with <transactionHash>
    When I click 'Enter'
    Then I see 'Transaction Details page'
```

```
Scenario: search with a invalid transaction hash
    Given I fill search field with <transactionHash>
    When I click 'Enter'
    Then I see 'Warning message'

@Search_Address
In order to I need to find a wallet
As a user I want to search with a address

Scenario: search with a valid address
    Given I fill search field with <address>
    When I click 'Enter'
    Then I see 'Balance account page'

Scenario: search with a invalid address
    Given I fill search field with <address>
    When I click 'Enter'
    Then I see 'Warning message'
```

Layout Pages

https://www.figma.com/file/LOLeO5BWkb5eLDXnoCBoy5/4cadia-BlockExplorer?node-id=0%3A1