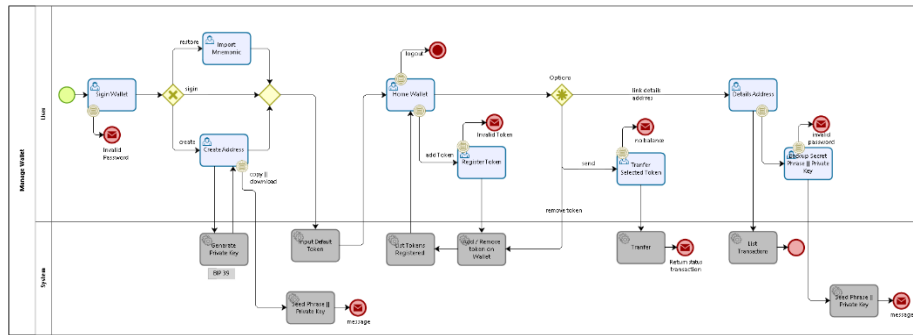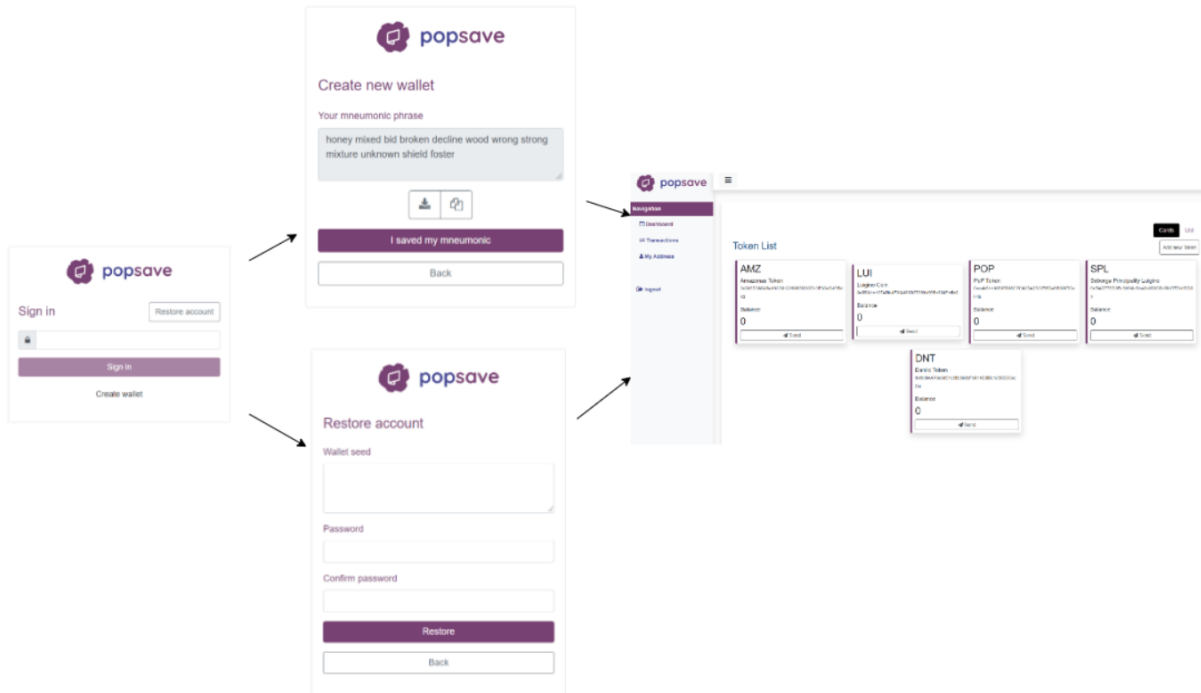# PoP Save - Wallet

Acceptance criteria

- User can access **webapp** Wallet
- User can **create** new Wallet
- User can **restore** wallet with seed phrase
- User can **backup** seed phrase
- If the user already have an Wallet account, he can choose for **Sigin**;
- View balance and transactions on several different assets that implement POP20 (**ERC20**).
- User can access all transactions from a **link** to the network
- User can **add** others tokens POP20 (ERC20) on wallet

Generate address wallet

- Generate a random mnemonic with 12 words (BIP39 Mnemonic)
- Generate a BIP-039 + BIP-044 wallet from *mnemonic* deriving *path* using the *wordlist*. The default language is English (en)
- Checksum Address
- ethers.js library

Layout Pages

Features behavior

Create wallet

```
@Wallets_Creations
Feature: Create Wallet
In order to I don't have a wallet
As a user
I want to create my wallet

Background:
    Given I acess the Sigin Page
    When I selected "Create" wallet
    Then I copy my mneumonic phrase
    And I click "I saved my mneumonic" button

 Examples:
    |   Password  |   Confirm Password   |
    |   123456    |    123456            |
    |   qwertyu   |    qwer4ayq          |

  Scenario: Create wallet
    Given I paste my mneumonic in the fileld <mneumonic>
    When I fill  a valid <Password>
    And a <Confirm Password> equal <Passord>
    And I click in "Confirm"
    Then I should see the home page
```

```
 Scenario: Passwords Divergent
    Given I paste my mneumonic in the fileld <mneumonic>
    When I fill  a valid <Password>
    And a <Confirm Password> divergent <Passord>
    Then I should see the message "Divergent password"

Scenario: Invalid wallet Seed Phrase
    Given I paste invalid mneumonic in the fileld <mneumonic>
    When I fill  a <Password>
    Then I should see the message "Invalid Wallet Seed"
    And I couldn't proced
```

Import seed phrase

```
@Restore_Account
Feature: restore Account
In order to use my created wallet
As a user
I want to restore my existed wallet

Background:
    Given I acess the Wallets Sigin Page
    And I selected "Restore Account" wallet

Examples:
    |  Password   |   Confirm password    | Seed Phrase
|
    |  12345678   |   12345678            | acoustic blind casino humor
open figure step tape uphold smart kitten extra      |
    |  asdfghd    |   a7dfghj             | spray paddle velvet illegal
shop slender vault whisper state media only similar  |


  Scenario: Restore wallet Seed Phrase
    Given I have a valid wallet
    And I am at Import wallet Page
    When I fill  a valid <Seed Phrase>
    And a valid <Password>
    And a <Confirm Password> equal <Passord>
    And I click in "Import"
    Then I should see the home Page

 Scenario: Passwords Divergent
    Given I have a valid wallet
    And I am  at Import wallet Page
    When I fill  a valid <Seed Phrase>
    And a <Confirm Password> divergent <Password>
    And I click in "Import"
    Then I should see the message "Divergent password"
    And I couldn't proced
```

```
Scenario: Import invalid wallet Seed Phrase
    Given I am at Import wallet Page
    When I fill  a invalid <Seed Phrase>
    Then I should see the message "Invalid Wallet Seed"
    And I couldn't proced
```

Login wallet

```
@Wallets_Sigin
Feature: Sigin Wallet
In order to I have a wallet
As a user
I want to Sigin with my password

  Scenario: Login wallet
    Given I am at wallet login page
    When I fill  a valid <Password>
    And I click in "Sigin"
    Then I should see home page

  Scenario: Invalid Login wallet
    Given I am at wallet login page
    When I fill  a invalid <Password>
    And I click in "Sigin"
    Then I should see "Incorrect Password"
```

Backup seed phrase

```
@Backup_wallet-information_create-wallet
Feature: Backup seed phrase when create
In order to I creating my wallet
As a user
I want to Backup my seed phrase

  Scenario: backup whith download
    Given I acess the create-wallet Page
    And I see my "mneumonic phrase"
    When I select "download" button
    Then I should see download starts and my .txt file

  Scenario: backup whith copy
    Given I acess the create-wallet Page
    And I see my "mneumonic phrase"
    When I select "copy" button
    Then I should see a message "Sucess copy mneumonic phrase"

@Backup_ wallet-information_logged
Feature: Backup seed phrase settings
In order to I have a wallet
As a user
I want to Backup my seed phrase

Background:
    Given I acess the Wallet home Page
    And I click link my wallet
```

```
    Then I see export button

  Scenario: backup whith valid password
    Given I select <options>
    When I fill  a valid <Password>
    And I click in "download"
    Then I should see download starts

  Scenario: backup whith invalid password
    Given I select <options>
    When I fill  a invalid <Password>
    And I click in "download"
    Then I should see "Incorrect Password"

Examples:
|Options|
|Seed Phrase|
|Private Key|
```

Transfer

```
@Tranfer_Token
Feature: Transfer
In order I am <anyERC20> token holder
As a user
I want to tranfer my tokens to another address

Background:
    Given I am in my wallet home page
    When I see a list of Tokens
    Then I choose action "send" button on a Token

    Scenario: Transfer whith valid address to and whith balance
      Given I fill the field "address_to" whith valid address
      And I fill the field amount whith balance that I have
      When I click "Send"
      Then I see Confirm sucess message

    Scenario: Transfer whith invalid address to
      Given I fill the field "address_to" whith invalid address
      When I see a warn message "Recipient address is invalid"
      Then I cant't proceed

    Scenario: Transfer whith no balance
      Given I fill the field "address_to" whith valid address
      When I see a warn message "Insufficient funds"
      Then I cant't proceed
```

Add token

```
@add_token
Feature: Add tokens ERC20

    In order I have more types of tokens ERC20
    As a user I want to see all tokens in my wallet

    Background:
        Given I am sigin my wallet account
        And I selected add new token button
        And a I see add Token page

Scenario: Add token a valid ContractAddress ERC20
  When I fill the fiel <ContractAddress>
  And I click "add token" button
  Then I see my token in the list tokens

Scenario: Add token a invalid ContractAddress ERC20
  When I fill the field with invalid <ContractAddress>
  Then I see a warning message
  And I can not click "add token" button
```

List transactions

```
@list_transactions
Feature: list transactions

    In order I need to see my lastest transactions
    As a user I want to see in my wallet

Scenario: list transactions
  Given I am sigin my wallet account
  And I in home page
  When I click "Transactione" menu item
  Then I see my lastest transactions
```