

Disperse DAPP With Ink! And React

POLKADOT NA Hackathon

DAPP Overview

Disperse DAPP is a batching protocol for both native currency and ERC20/PSP20 tokens that can help create more efficient transfers by batching them in a single block. This dapp is live on multiple Dotsama ecosystem chains.

Project Repository and a simple GUI

Project Directory is located at <https://github.com/polkadotrafat/disperse>

GUI is at <https://famous-llama-2bd8e8.netlify.app/>

Contract Address (Shibuya Testnet) : **XAPTQfpsddWDJ9kkkVBQjkchzHjpD9Bz4noneJmfBvTySC7**

Disperse Contract

Disperse Native Currency

```
pub fn disperse currency(&mut self, addresses: Vec<AccountId>, values: Vec<Balance>)->  
Result<(),Error>
```

Disperse ERC20/PSP22 Tokens

```
pub fn disperse token(&mut self,token address: AccountId, addresses: Vec<AccountId>,  
values: Vec<Balance>)-> Result<(),Error>
```

Contract Interactor GUI Requirements

1. Polkadot.js Wallet
2. Connect Polkadot.js to the blockchain by allowing website access
3. Get some tokens for transactions if you don't already have them.

Backend Tooling

Rust Toolchain

Substrate-contracts-node

Openbrush PSP22 Contract library

Polkadot.js account

Frontend Tooling

Create-React-App

yarn

React Bootstrap UI

Install : yarn install

Local Server : yarn start

DEMO 1 : Batch Transfer Native Token

- Enter each address in a new line followed by a separator (comma,colon or blank space) and then the amount.
- In this Demo we will disperse different amounts of native currency to two different addresses. Both addresses are two different accounts from the same wallet.
- Address1 gets 0.2 and address two gets 0.3.

DEMO 2 : Batch Transfer ERC20 Tokens

- Enter the ERC20/PSP22 Address. We will use testtoken (address) for this demo.
- Enter each address in a new line followed by a separator (comma,colon or blank space) and then the amount.
- In this Demo we will disperse different amounts of test tokens to two different addresses. Both addresses are two different accounts from the same wallet.
- Address1 gets 5000 tokens and address two gets 8000 tokens.