

DataToken Contract

Structure for user information:

Ethereum Address

User Role (Provider or Receiver)

Token Balance

Provider/Receiver Address

Data Usage (Only when the user is a Receiver)

Paid or Not (Only change when the user is a Receiver)

function Initializer: Push contract information to user information array as placeholder

function addUser: Mark an Ethereum user as a user of DataTokenAlpha

function removeUser: Mark an Ethereum user as not a user of the contract

function topUp: User can pay the contract for token

function withdraw: User can redeem all token for Ether

function transfer: User A can transfer to User B a designated amount of token

function link: User A can pair with User B as receiver and provider if A is receiver and B is provider