Information Technologies for Industrial Engineers

เทคโนโลยีสารสนเทศสำหรับวิศวกรอุตสาหการ

Decentralized Application (DApp)

Demo

https://nr-dapp-67.netlify.app/

What you need

- Alchemy API key
- Alchemy URL
- Addresses
 - Account address (from MetaMask)
 - Secret contract address
 - ERC20 (token) contract address
 - ERC721 (NFT) contract address
- Token Symbol

What you need

- ABIs
 - Secret contract address
 - ERC20 (token) contract address
 - ERC721 (NFT) contract address

Setup

- npm create vite@latest
- ...
- ..
- npm install wagmi viem@2.x @tanstack/react-query

.env

```
VITE_ALCHEMY_KEY=...
VITE_ALCHEMY_URL=...
VITE_MY_ACCOUNT_ADDRESS=...
VITE_SECRET_CONTRACT_ADDRESS=...
VITE_TOKEN_CONTRACT_ADDRESS=...
VITE_TOKEN_SYMBOL=...
VITE_NFT_CONTRACT_ADDRESS=...
```

./src/env.ts

```
export const ALCHEMY_URL = import.meta.env.VITE_ALCHEMY_URL;
export const ALCHEMY KEY = import.meta.env.VITE ALCHEMY KEY;
export const MY ACCOUNT ADDRESS = import.meta.env.VITE MY ACCOUNT ADDRESS;
export const SECRET CONTRACT ADDRESS = import.meta.env
  .VITE SECRET CONTRACT ADDRESS;
export const TOKEN CONTRACT ADDRESS = import.meta.env
  .VITE TOKEN CONTRACT ADDRESS;
export const NFT CONTRACT ADDRESS = import.meta.env.VITE NFT CONTRACT ADDRESS;
export const TOKEN SYMBOL = import.meta.env.VITE TOKEN SYMBOL;
if (
  !ALCHEMY URL ||
  !ALCHEMY KEY ||
  !MY ACCOUNT ADDRESS |
  !SECRET CONTRACT ADDRESS |
  !TOKEN CONTRACT ADDRESS |
  !NFT_CONTRACT_ADDRESS | |
  !TOKEN SYMBOL
  throw new Error("Please set env variables correctly.");
```

./src/main.tsx

```
import { QueryClient, QueryClientProvider } from "@tanstack/react-query";
import React from "react";
import ReactDOM from "react-dom/client";
import { createConfig, http, WagmiProvider } from "wagmi";
import { sepolia } from "wagmi/chains";
import App from "./App.tsx";
import { ALCHEMY KEY, ALCHEMY URL } from "./env.ts";
import "./index.css";
const queryClient = new QueryClient();
const config = createConfig({
  chains: [sepolia],
  transports: {
    [sepolia.id]: http(ALCHEMY_URL, {
      name: "Alchemy HTTP Provider",
      key: ALCHEMY KEY,
});
ReactDOM.createRoot(document.getElementById("root")!).render(
  <React.StrictMode>
    <WagmiProvider config={config}>
      <QueryClientProvider client={queryClient}>
        <App />
      </OueryClientProvider>
    </WagmiProvider>
  </React.StrictMode>
);
```

./src/abi.ts

```
export const secretABI = [
    // ...
] as const;

export const tokenABI = [
    // ...
] as const;

export const NFTABI = [
    // ...
] as const;
```

./src/App.tsx

https://gist.github.com/nnnpooh/47e64662f6667ca1d0d12f4ad359af43