Web3Modal SDK & Wagmi

Installation

- npm
- Yarn
- pnpm

npm

install @web3modal/ethers5 ethers@5.7.2 yarn

add @web3modal/ethers5 ethers@5.7.2 pnpm

add @web3modal/ethers5 ethers@5.7.2

Usage

On top of your app set up the following configuration, making sure that all functions are calledoutside any React component to avoid unwanted rerenders.

import

{ createWeb3Modal , defaultConfig }

from

'@web3modal/ethers5/react'

// 1. Get a Project ID from https://cloud.walletconnect.com/ const projectId =

'YOUR_PROJECT_ID'

// 2. Set chains const celo =

{ chainId :

42220 , name :

'Celo' , currency :

'CELO' , explorerUrl :

'https://explorer.celo.org/mainnet' , rpcUrl :

'https://forno.celo.org' }

const alfajores =

{ chainId :

44787 , name :

'Alfajores' , currency :

'CELO' , explorerUrl :

'https://explorer.celo.org/alfajores' , rpcUrl :

'https://alfajores-forno.celo-testnet.org' }

// 3. Create modal const metadata =

{ name :

'My Celo App' , description :

'My Website description' , url :

'https://mywebsite.com' , icons :

```
[ 'https://avatars.mywebsite.com/' ] }
```

```
createWeb3Modal ( { ethersConfig :
```

```
defaultConfig ( { metadata } ) , chains :
```

```
[ celo , alfajores ] , defaultChain : celo , projectId } )
```

```
export
```

```
default
```

```
function
```

```
App ( )
```

```
{ return
```

< YourApp /> } Use theweb component anywhere in your app to open the wallet modal.

```
export
```

```
default
```

```
function
```

```
ConnectButton ( )
```

```
{ return
```

```
< w3m-button
```

/> } info Web components are global html elements that don't require importing.

Smart Contracts interaction

```
import
```

```
{ useWeb3ModalSigner , useWeb3ModalAccount }
```

```
from
```

```
'@web3modal/ethers5/react' import
```

```
{ ethers }
```

```
from
```

```
'ethers'
```

```
const USDTAddress =
```

```
'0x617f3112bf5397D0467D315cC709EF968D9ba546'
```

```
// The ERC-20 Contract ABI, which is a common contract interface // for tokens (this is the Human-Readable ABI format) const USDTAbi =
```

```
[ // Some details about the token "function name() view returns (string)" , "function symbol() view returns (string)" ,
```

```
// Get the account balance "function balanceOf(address) view returns (uint)" ,
```

```
// Send some of your tokens to someone else "function transfer(address to, uint amount)" ,
```

```
// An event triggered whenever anyone transfers to someone else "event Transfer(address indexed from, address indexed to, uint amount)" ] ;
```

```
function
```

```
Components ( )
```

```
{ const
```

```
{ address , chainId , isConnected }
```

```
=

useWeb3ModalAccount ( ) const

{ signer }

=

useWeb3ModalSigner ( )

async

function

getBalance ( ) { if ( ! isConnected )

throw

Error ( "User disconnected" )

// The Contract object const USDTContract =

new

ethers . Contract ( USDTAddress , USDTAbi , signer ) const USDTBalance =

await USDTContract . balanceOf ( address )

console . log ( ethers . utils . formatUnits ( USDTBalance ,

18 ) ) }

return

( < button onClick = { getBalance }

    Get User Balance < / button

    ) } *
```

* [Learn more about Web3Modal SDK](#) * [Learn more about Ethers](#) [Edit this page](#) [Previous Wagmi](#) [Next Rainbowkit-celo](#)