

# 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 called outside 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
```