

permissionless.js

You are viewing permissionless.js v0.1 documentation. [Click here](#) to view the latest documentation. Build with ERC-4337 smart accounts, bundlers, paymasters, and user operations npm pnpm yarn npm installpermissionless permissionless.js is a TypeScript library built on viem for building with ERC-4337 smart accounts, bundlers, paymasters, and user operations. The core focuses are avoiding provider lock-in, having no dependencies, maximum viem compatibility, and a small bundle size. permissionless.js also provides high-level support for the major ERC-4337 smart accounts, including Safe, Kernel, Biconomy, SimpleAccount, TrustWallet and LightAccount. [Get started](#) [GitHub](#)

Overview

...

```
const pimlicoApiKey = "YOUR_API_KEY_HERE"
const bundlerUrl = "https://api.pimlico.io/v2/sepolia/rpc?apikey={pimlicoApiKey}"

const userOpHash = "0x5faea6a3af76292c2b23468bbea96ef63fb31360848be195748437f0a79106c8"

// ---cut--- // Import the required modules.
import { createBundlerClient } from "permissionless"
import { sepolia } from "viem/chains"
import { http } from "viem"

// Create the required clients.
const bundlerClient = createBundlerClient({
  chain: sepolia,
  transport: http(bundlerUrl), // Use any bundler url
  entryPoint: "0x5FF137D4b0FDCD49DcA30c7CF57E578a026d2789",
})

// Consume bundler, paymaster, and smart account actions!
const opReceipt = await bundlerClient.getUserOperationReceipt({
  hash: userOpHash
})

// Build with strict TypeScript types
opReceipt!.actualGasUsed // ^?
```

...

Features

- High-level smart account support
- : We support a high-level API for deploying and managing smart accounts, including some of the most popular implementations ([Safe](#)
 - [Kernel](#)
 - [Biconomy](#)
 - [TrustWallet](#)
 - , etc.)
- Bundler support
- : We support all bundler actions following [ERC-4337](#)
 - .
- Gas sponsorship
- : We support paymaster actions to allow you to easily sponsor gas fees.
- User Operation utility functions
- : We provide many low-level utility functions useful for dealing with User Operations.
- Modular and extensible
- : We allow you to easily create and plug in your own smart account systems, bundlers, paymasters, and signers.
- Built on & for viem
- : permissionless.js is designed to be a thin wrapper around viem, maintaining the same style and overall feel viem provides.
- and a lot more...

Source Code

The source code for permissionless.js is available on [GitHub](#)

permissionless.js is distributed under an MIT License.

We welcome contributions from the community. If you would like to contribute, please open an issue or a pull request.

Feel free to ask any questions in our [Telegram group](#)