

```
rc > context > ✨ TransactionContext.jsx > [!] TransactionsProvider > [!] sendTransaction
    window.location.reload();
} catch (error) {
  console.log(error);
  throw new Error("No ethereum object");
}
};

const sendTransaction = async () => {
try {
  if (!ethereum) return alert("Please install MetaMask.");
  // get the data from the form
} catch (error) {
  console.log(error);
  throw new Error("No ethereum object");
}
```

File Edit Selection View Go Run Terminal Help

• TransactionContext.jsx - web3.0 - Visual Studio Code

EXPLORER

WEB3.0

- client
- > images
- > node_modules
- src
 - components
 - Footer.jsx
 - index.js
 - Loader.jsx
 - Navbar.jsx
 - Services.jsx
 - Transactions.jsx
 - Welcome.jsx
 - context
 - TransactionContext.jsx
 - utils
 - constants.js
 - Transactions.json
- # App.css
- < App.js

OUTLINE

TIMELINE TransactionContext.jsx

- File Saved 11 hrs
- File Saved 17 hrs
- File Saved
- File Saved 19 hrs
- Undo / Redo
- File Saved

PROBLEMS OUTPUT TERMINAL

```
const sendTransaction = async () => {
  try {
    if (!ethereum) return alert("Please install MetaMask.");
    const { addressTo, amount, keyword, message } = formData;
    getEthereumContract();

    // get the data from the form
  } catch (error) {
    console.log(error);
    throw new Error("No ethereum object");
  }
}

useEffect (() => {
  checkIfWalletIsConnect();
}, [
```

Ln 78, Col 1 Spaces: 2 UTF-8 CRLF {} JavaScript React ⚡ Go Live 🌐 10:37 AM 17-06-2022

Dimensions: Responsive ▾ 396 x 332 150% ▾ No throttling ▾

Ethereum

test

0.0004

test

test

Send now

Elements Console Recorder Sources Network Performance

top Filter Default levels 1 Issue: 1

5 messages

5 user mess...

No errors

No warnings

5 info

No verbose

[vite] connecting... client.ts:16

[vite] connected. client.ts:53

[vite] hot updated: /src/components/Welcome.jsx client.ts:343

[vite] hot updated: /src/index.css client.ts:343

Object

- provider: Web3Provider {_isProvider: true, _events: Array(0), _emitted: ...}
- signer: JsonRpcSigner {_isSigner: true, provider: Web3Provider, _index: 0...}
- transactionsContract: Contract
 - addToBlockchain: f (...args)
 - addToBlockchain(address,uint256,string,string): f (...args)
address: "0xB0314924eBf7ef1F165163476aaF8Aa19E5cfda2"
 - callStatic: {addToBlockchain(address,uint256,string,string): f, getAllT...}
 - estimateGas: {addToBlockchain(address,uint256,string,string): f, getAll...}
 - filters: {Transfer(address,address,uint256,string,uint256,string): f, f...
 - functions: {addToBlockchain(address,uint256,string,string): f, getAllTr...}
 - getAllTransactions: f (...args)
 - getAllTransactions(): f (...args)
 - getTransactionCount: f (...args)
 - getTransactionCount(): f (...args)
 - interface: Interface {fragments: Array(4), _abiCoder: AbiCoder, functio...
 - populateTransaction: {addToBlockchain(address,uint256,string,string): f...
 - provider: Web3Provider {_isProvider: true, _events: Array(0), _emitted: ...}
 - resolvedAddress: Promise {<fulfilled>: '0xB0314924eBf7ef1F165163476aaF8...
 - signer: JsonRpcSigner {_isSigner: true, provider: Web3Provider, _index: ...}
 - _runningEvents: {}
 - _wrappedEmits: {}
 - [[Prototype]]: BaseContract
- [[Prototype]]: Object

File Edit Selection View Go Run Terminal Help Transactions.sol - web3.0 - Visual Studio Code

EXPLORER ... TransactionContext.jsx Welcome.jsx Transactions.sol

WEB3.0 smart_contract > contracts > Transactions.sol

artifacts
cache
contracts
Transactions.sol
node_modules
scripts
deploy.js
test
.gitignore
hardhat.config.js
package-lock.json
package.json
README.md
package-lock.json
package.json
web3.0_2.pdf
web3.0.pdf

OUTLINE
TIMELINE Transactions.sol
Rename Transaction.sol ... 1 day

```
15     string message;
16     uint256 timestamp;
17     string keyword;
18 }
19
20 TransferStruct[] transactions;
21
22 function addToBlockchain(address payable receiver, uint amount, string memory message, string
23 memory keyword) public {
24     transactionCount += 1;
25     transactions.push(TransferStruct(msg.sender, receiver, amount, message, block.timestamp,
26         keyword));
27
28     emit Transfer(msg.sender, receiver, amount, message, block.timestamp, keyword);
29 }
30
31 function getAllTransactions() public view returns (TransferStruct[] memory) {
32     return transactions;
33 }
34
35 function getTransactionCount() public view returns (uint256) {
36     return transactionCount;
}
```

PROBLEMS OUTPUT TERMINAL

Ln 6, Col 17 Spaces: 4 UTF-8 CRLF Solidity Go Live

12:29 PM 17-06-2022

The image shows a code editor interface with a sidebar on the left displaying a file tree. The tree includes a 'context' folder containing 'utils' and 'TransactionContext.jsx'. Other files listed include 'constants.js', 'Transactions.json', 'App.css', 'App.jsx', 'favicon.svg', 'App.css', 'App.jsx', 'App.css', 'App.jsx', 'favicon.svg', 'index.css', 'logo.svg', 'main.jsx', 'App.css', 'App.jsx', 'favicon.svg', 'index.css', and 'logo.svg'. The 'TransactionContext.jsx' file is currently open in the main editor area.

```
const { ethereum } = window;
const getEthereumContract = () => {
  const provider = new ethers.providers.Web3Provider(ethereum);
  const signer = provider.getSigner();
  const transactionsContract = new ethers.Contract(contractAddress, contractABI, signer);
  return transactionsContract;
};

const sendTransaction = async () => {
  try {
    if (!ethereum) return alert("Please install MetaMask.");
    const { addressTo, amount, keyword, message } = formData;
    const transactionsContract = getEthereumContract();
    // get the data from the form
  } catch (error) {
    console.log(error);
    throw new Error("No ethereum object");
  }
}
```

The screenshot shows the VS Code interface with the TransactionContext.jsx file open in the editor. The file contains JavaScript code for a context provider that handles Ethereum transactions.

```
const sendTransaction = async () => {
  try {
    if (!ethereum) return alert("Please install MetaMask.");
    const { addressTo, amount, keyword, message } = formData;
    const transactionsContract = getEthereumContract();
    const parsedAmount = ethers.utils.parseEther(amount);

    await ethereum.request({
      method: "eth_sendTransaction",
      params: [
        from: currentAccount,
        to: addressTo,
        gas: "0x5208", // 21000 GWEI
        value: parsedAmount._hex,
      ],
    });
  }
};
```

The code is annotated with two numbers:

- Number 1 is placed around the `await ethereum.request({ ... })` line, which is highlighted by a red rectangular selection.
- Number 2 is placed around the `const parsedAmount = ethers.utils.parseEther(amount);` line, which is also highlighted by a red rectangular selection.

The status bar at the bottom of the editor indicates: `// get the data from the form`.

```
App.jsx
 favicon.svg
# App.css
App.jsx
 favicon.svg
# index.css
 logo.svg
 main.jsx
 main.jsx
# App.css
App.jsx
 favicon.svg
# index.css
 logo.svg
 main.jsx
# App.css
```

17 18 export const TransactionsProvider = ({ children }) => {
19 19 const [formData, setformData] = useState({ addressTo: "", amount: "", keyword: "", message: ""});
20 20 const [currentAccount, setCurrentAccount] = useState("");
21 21 const [isLoading, setIsLoading] = useState(false);
22 22 const [transactionCount, setTransactionCount] = useState(localStorage.getItem('transactionCount'));
23 23 ...
24 24 const transactionHash = await transactionsContract.addToBlockchain(addressTo, parsedAmount, message, keyword);
25
26 26 setIsLoading(true);
27 27 console.log(`Loading - \${transactionHash.hash}`);
28 28 await transactionHash.wait();
29 29 console.log(`Success - \${transactionHash.hash}`);
30 30 setIsLoading(false);
31
32 32 const transactionsCount = await transactionsContract.getTransactionCount();
33 33 setTransactionCount(transactionsCount.toNumber());
34
35 35 // get the data from the form
36 36 } catch (error) {
37 37 console.log(error);
38 38 throw new Error("No ethereum object");
39 39 }
40
41 41 useEffect (() => {
42 42 checkIfWalletIsConnect();
43 43 },
44 44 []);
45
46 46 return (
47 47 <TransactionContext.Provider value={{connectWallet, currentAccount, formData,
48 48 setformData, handleChange, sendTransaction
49 49 }}>
50 50 { children }
51 51 </TransactionContext.Provider>
52 52 };

Vite App (854) YouTube

localhost:3000

Google Mails YouTube Udemy HL Network... Trade UpGrad AQUA fight Again ! Other bookmarks

KRYPT

Market Exchange

Send Crypto across the world

Explore the crypto world. Buy and sell cryptocurrencies easily on Krypto.

Reliability	Security
Web 3.0	Low Fees

Goerli Test Network

Account Name: Account 2

Cancel Create

02:18 PM 17-06-2022

Vite App (854) YouTube

localhost:3000

Google Mails YouTube Udemy HL Network... Trade UpGrad AQUA fight Again ! Other bookmarks

KRYPT

Market Exchange

Send Crypto across the world

Explore the crypto world. Buy and sell cryptocurrencies easily on Krypto.

Reliability	Security
Web 3.0	Low Fees

0 ETH

Buy Send Swap

Assets Activity

0 ETH >

Don't see your token? Import tokens

Need help? Contact MetaMask Support

02:19 PM 17-06-2022

The screenshot shows a browser window with two tabs: "Vite App" and "YouTube". The "Vite App" tab displays a dark-themed UI with a large input field containing a long Ethereum address: `0x09B03ceE57a812Eb9A981E2503B995db3e5e`. Below it is a text input field with the value `0.0005`. There are two "test" buttons and a large blue "Send now" button at the bottom.

The browser's developer tools are open, showing the "Console" tab with the following log output:

```
▶ 2 messages >
▶ 2 user mess...
✖ No errors
⚠ No warnings
▶ 2 info
✖ No verbose
```

To the right of the browser is the MetaMask extension interface. It shows the "Edit" screen for a transaction. The recipient address is `http://localhost:3000`, the amount is `SENDING ETH` with a value of `0.0005`, and the gas price is `0.00005093 ETH`. The transaction is marked as "Likely in < 30 seconds" with a "Max fee" of `0.00005093 ETH`. The total cost is `0.00055093 ETH`, combining the amount and gas fee. At the bottom are "Reject" and "Confirm" buttons.



02:29 PM
17-06-2022

YouTube (854) Vite App

localhost:3000

Dimensions: Responsive 396 x 332 150% No throttling

Account 1 → 0xB03...fd2

New address detected! Click here to add to your address book.

http://localhost:3000

0xB03...fd2 : CONTRACT INTERACTION

DETAILS DATA HEX

Market >

Gas (estimated) 0.00031139
0.00031139 ETH

Likely in < 30 seconds Max fee: 0.00031139 ETH

Total 0.00031139
0.00031139 ETH

Amount + gas fee Max amount: 0.00031139 ETH

02:30 PM Speakers: 48%

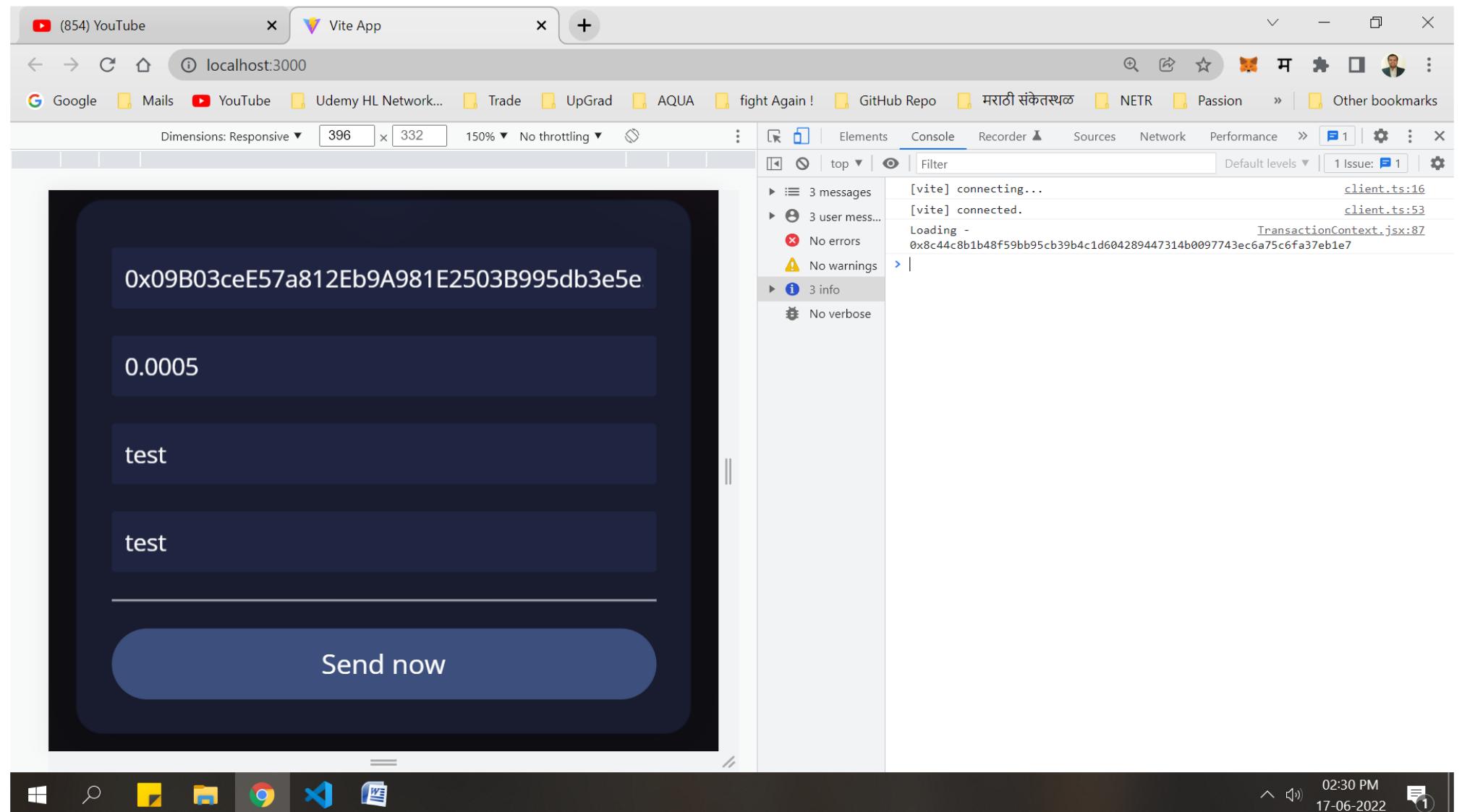
0x09B03ceE57a812Eb9A981E2503B995db3e5e

0.0005

test

test

Send now



02:30 PM
17-06-2022

YouTube (854) Vite App

localhost:3000

Dimensions: Responsive ▾ 396 x 332 150% ▾ No throttling ▾

Elements Console Recorder Sources Network Performance

Filter Default levels ▾ 1 Issue: 1 | 1 hidden

5 messages [vite] connecting... client.ts:16
[vite] connected. client.ts:53
Loading - 0x8c44c8b1b48f59bb95cb39b4c1d604289447314b0097743ec6a75c6fa37eb1e7 TransactionContext.jsx:87
Success - 0x8c44c8b1b48f59bb95cb39b4c1d604289447314b0097743ec6a75c6fa37eb1e7 TransactionContext.jsx:89

4 user mess...
No errors
No warnings
4 info
1 verbose

0x09B03ceE57a812Eb9A981E2503B995db3e5e

0.0005

test

test

Send now

Windows Search File Explorer Chrome Visual Studio Code Edge

02:32 PM 17-06-2022

YouTube (854) Vite App

localhost:3000

Dimensions: Responsive 396 x 332 150% No throttling

Google Mails YouTube Udemy HL Network... Trade UpGrad AQUA fight Again ! Other bookmarks

Account 2
0x09B...5840

0.0005 ETH

Buy Send Swap

Assets Activity

You have no transactions

Need help? Contact [MetaMask Support](#)

02:33 PM 17-06-2022

client.ts:16
client.ts:53
transactionContext.jsx:87
75c6fa37eb1e7
transactionContext.jsx:89
75c6fa37eb1e7

YouTube (854) | Vite App | Goerli Transaction Hash (Txhash) | +

goerli.etherscan.io/tx/0x8c44c8b1b48f59bb95cb39b4c1d604289447314b0097743ec6a75c6fa37eb1e7

Google Mails YouTube Udemy HL Network... Trade UpGrad AQUA fight Again ! GitHub Repo मराठी संकेतस्थळ NETR Passion Other bookmarks

Overview Logs (1) State

② Transaction Hash: 0x8c44c8b1b48f59bb95cb39b4c1d604289447314b0097743ec6a75c6fa37eb1e7

② Status: Success

② Block: 7074004 12 Block Confirmations

② Timestamp: 3 mins ago (Jun-17-2022 09:00:31 AM +UTC)

② From: 0xe5ded5c8b695c7c0892340bb694e1280935599f6

② To: Contract 0xb0314924ebf7ef1f165163476aaf8aa19e5cfda2

② Value: 0 Ether (\$0.00)

② Transaction Fee: 0.000402728481660736 Ether (\$0.00)

② Gas Price: 0.000000001940000008 Ether (1.940000008 Gwei)

Click to see More ↓



02:35 PM
17-06-2022

YouTube (854) Vite App Goerli Transaction Hash (Txhash)

localhost:3000

Dimensions: Responsive 396 x 332 150% No throttling

Elements

top

- 5 messages
- 4 user messages
- No errors
- No warnings
- 4 info
- 1 verbose

Goerli Test Network

0.098 ETH

Assets Activity

Buy Send Swap

Contract Interaction -0 ETH Jun 17 · localhost:3000 -0 ETH

Send -0.0005 ETH Jun 17 · To: 0x09b...5840 -0.0005 ETH

Receive 0.05 ETH Jun 16 · From: 0xa7e...d60b 0.05 ETH

Receive 0.05 ETH

client.ts:16
client.ts:53
transactionContext.jsx:87
75c6fa37eb1e7
transactionContext.jsx:89
75c6fa37eb1e7

0x09B03ceE57a812Eb9A981E2503B995db3e5e

0.0005

test

test

Send now

02:36 PM Show hidden icons

YouTube (854) | Vite App | Goerli Transaction Hash (Txhash) | Address 0xe5ded5c8b695c7c089... | +

goerli.etherscan.io/address/0xe5ded5c8b695c7c0892340bb694e1280935599f6

Google Mails YouTube Udemy HL Network... Trade UpGrad AQUA fight Again ! GitHub Repo मराठी संकेतस्थळ NETR Passion Other bookmarks

Address 0xe5DED5C8B695c7C0892340bb694e1280935599f6

Overview

Balance: 0.097971403033784354 Ether

More Info

My Name Tag: Not Available

Transactions

Latest 5 from a total of 5 transactions

Txn Hash	Method ⓘ	Block	Age	From ↴	To ↴	Value	Txn Fee
0x8c44c8b1b48f59bb95c...	Add To Blockchain	7074004	8 mins ago	0xe5ded5c8b695c7c089...	OUT 0xb0314924ebf7ef1f165...	0 Ether	0.0004027284
0x561b8af4fb36485974c...	Transfer	7073999	9 mins ago	0xe5ded5c8b695c7c089...	OUT 0x09b03cee57a812eb9a...	0.0005 Ether	0.0000364410
0xbc05f017de99696593f...	Transfer	7067813	1 day 2 hrs ago	0xa7e4ef0a9e15bdef215...	IN 0xe5ded5c8b695c7c089...	0.05 Ether	0.0000751361
0x3224514a76bcc5f015...	0x60806040	7062558	2 days 28 mins ago	0xe5ded5c8b695c7c089...	OUT Contract Creation	0 Ether	0.0010894274
0x4cf61e59d137ab5420...	Transfer	7061612	2 days 4 hrs ago	0x87c9b02a10ec2cb4dc...	IN 0xe5ded5c8b695c7c089...	0.05 Ether	0.0000751361

Windows Search File Explorer Visual Studio Code Taskbar 02:40 PM 17-06-2022

YouTube (854) | Vite App | Goerli Transaction Hash (Txhash) | Address 0x09b03cee57a812eb9a981e2503b995db3e5e5840

goerli.etherscan.io/address/0x09b03cee57a812eb9a981e2503b995db3e5e5840

Google Mails YouTube Udemy HL Network... Trade UpGrad AQUA fight Again ! GitHub Repo मराठी संकेतस्थळ NETR Passion Other bookmarks

Address 0x09B03ceE57a812Eb9A981E2503B995db3e5e5840

Overview

Balance: 0.0005 Ether

More Info

My Name Tag: Not Available

Transactions

Latest 1 from a total of 1 transactions

Txn Hash	Method ⓘ	Block	Age	From ↴	To ↴	Value	Txn Fee
0x561b8af4fb36485974c...	Transfer	7073999	9 mins ago	0xe5ded5c8b695c7c089...	IN 0x09b03cee57a812eb9a...	0.0005 Ether	0.000036441038 \$

[Download CSV Export]

A wallet address is a publicly available address that allows its owner to receive funds from another party. To access the funds in an address, you must have its private key. Learn more about addresses in our [Knowledge Base](#).

