

This plugin enables interaction with OpenSea. Buy and sell items on OpenSea involves multiple steps, but the plugin together with the Moralis SDK take care of everything.

Supported chains

This plugins works with 2 different blockchains:

- Ethereum Mainnet ('mainnet')
- Ethereum Rinkeby ('testnet')

Supported tokens

- ERC721
- ERC1155

SDK

Import the Moralis SDK in your project.

```
<script
src="https://cdn.jsdelivr.net/npm/web3@latest/dist/web3.min.js"></script>

<script
src="https://npmcdn.com/moralis@latest/dist/moralis.js"></script>
```

Utils

Useful endpoints in this plugin:

Get asset

```
await Moralis.Plugins.opensea.getAsset({  
  
  network: 'testnet',  
  
  tokenAddress: '0xdb8143c3996c87ecd639ebba5d13b84f56855c2',  
  
  tokenId: '0',  
  
});
```

Get orders

```
await Moralis.Plugins.opensea.getOrders({  
  
  network: network,  
  
  tokenAddress: tokenAddress,  
  
  tokenId: tokenId,  
  
  orderSide: side,  
  
  page: 1, // pagination shows 20 orders each page  
  
});
```

Sellers

To sell an asset, call `createSellOrder`. You can do a fixed-price listing, where `startAmount` is equal to `endAmount`, or a declining Dutch auction, where `endAmount` is lower and the price declines until `expirationTime` is hit.

```
// Expire this auction one day from now.  
  
// Note that we convert from the JavaScript timestamp  
(milliseconds):
```

```
const expirationTime = Math.round(Date.now() / 1000 + 60 * 60 * 24);

await Moralis.Plugins.opensea.createSellOrder({

  network: 'testnet',

  tokenAddress: '0xdbE8143c3996c87eCd639ebba5d13b84f56855c2',

  tokenId: '0',

  tokenType: 'ERC1155',

  userAddress: '0x7fB3948c368A943e4EFE848F251E4f254dA1a2b2',

  startAmount: 1,

  endAmount: 1,

  // expirationTime: expirationTime, Only set if you startAmount >
  endAmount

});
```

Buyers

You can create a buy order by calling `createBuyOrder`. Buy orders must be placed using wrapped ETH or an ERC-20 token.

```
await Moralis.Plugins.opensea.createBuyOrder({

  network: 'testnet',

  tokenAddress: '0xdbE8143c3996c87eCd639ebba5d13b84f56855c2',

  tokenId: '0',

  tokenType: 'ERC1155',

  amount: 0.5,
```

```
userAddress: '0x6057b9bA4BAe35B8128685f342a8e1016b77046d',  
  
paymentTokenAddress:  
'0xc778417e063141139fce010982780140aa0cd5ab',  
  
});
```

Fulfill orders

To buy an item you need to fulfill a sell order. To sell an item you need to fulfill a buy order.

You can fetch orders for a given token by using the getOrder endpoint described above, then use it as parameter in fulfillOrder.

```
await Moralis.Plugins.opensea.fulfillOrder({  
  
  network: 'testnet',  
  
  userAddress: '0x6057b9bA4BAe35B8128685f342a8e1016b77046d',  
  
  order: {},  
  
});
```

Cancel orders

You can cancel an order by calling cancelOrder. You can fetch orders for a given token by using the getOrder endpoint described above, then use it as parameter in fulfillOrder.

```
await Moralis.Plugins.opensea.cancelOrder({  
  
  network: 'testnet',  
  
  userAddress: '0x6057b9bA4BAe35B8128685f342a8e1016b77046d',  
  
});
```

