

## 合约代码

必需依赖

确保已安装:

```
npm install thirdweb @thirdweb-dev/sdk ethers
```

### 1. 创建 Thirdweb Client

```
// client.ts
```

```
import { createThirdwebClient } from "thirdweb";
```

```
export const client = createThirdwebClient({  
  clientId: "你的 ClientId", // 到 thirdweb dashboard 获取  
});
```

### 2. 前端集成

```
// MintPay.tsx
```

```
import { PayEmbed } from "thirdweb/react";
```

```
import { prepareContractCall } from "thirdweb";
```

```
import { client } from "./client";
```

```
// 后端 API 拉取到的签名数据（你需要实际通过接口获取）
```

```
const signatureData = {  
  payload: {  
    /* see backend example 下 */  
  },  
  signature: "0x...", // 从你后端获取  
};
```

```
const nftMeta = {  
  name: "BASED KPOP NFT",  
  image: "https://图片 URL",  
  description: "Redefine KPOP with pioneer art.",  
};
```

```
export default function MintNftPay() {  
  return (  
    <PayEmbed  
      client={client}  
      payOptions={{  
        mode: "transaction",  
        transaction: prepareContractCall({  
          contract:  
            "0x9c38ed5bC072972dffC59bfaab6ADE77D3FC285B", // BASED KPOP 合约地址  
        })  
      }}  
    />  
  );  
}
```

```

        functionName: "mintWithSignature",
        args: [
            signatureData.payload,
            signatureData.signature,
        ],
    }},
    metadata: nftMeta,
}
}
/>
);
}

```

### 3. 后端签名（Node.js/TypeScript 示例）

你必须在后端用带 **Minter** 权限的钱包生成签名授权。每次用户支付前，拉接口获取最新 **signature**！

```

import { ThirdwebSDK } from "@thirdweb-dev/sdk";
import { generateMintSignature } from "thirdweb/extensions/erc1155";
import { ethers } from "ethers";

const PRIVATE_KEY = process.env.PRIVATE_KEY!; // .env
const sdk = ThirdwebSDK.fromPrivateKey(PRIVATE_KEY, "base");
const contract = await sdk.getContract(
    "0x9c38ed5bc072972dffC59bfaab6ADE77D3FC285B",
);

export async function getMintSignature(
    to: string,
    quantity: number,
    metadata: object,
) {
    const { payload, signature } =
        await generateMintSignature({
            account: await sdk.getSigner(),
            contract,
            mintRequest: {
                to,
                quantity: BigInt(quantity),
                metadata,
                pricePerToken: BigInt(7 * 1e6), // 7 USDC (6 位小数, Base USDC)
                currency:
                    "0xd9AA3A156c9E2e7Fc4b90CDd1CFFE45A731B1a14", // Base USDC 地址
                validityStartTimestamp: BigInt(
                    Math.floor(Date.now() / 1000),
                ),
            },
        });
}

```

```

    ),
    validityEndTimestamp: BigInt(
      Math.floor(Date.now() / 1000) + 3600,
    ),
    primarySaleRecipient: "你的收款钱包地址",
    uid: ethers.utils.hexlify(
      ethers.utils.randomBytes(32),
    ),
  },
});
return { payload, signature };
}

```

将此接口暴露给前端(API)，前端在每次购买请求时拉取。

#### 4. 钱包连接嵌入与多端适配

```

// App.tsx
import { ConnectEmbed } from "thirdweb/react";
import { client } from "./client";

export default function App() {
  return <ConnectEmbed client={client} chain="base" />; // 默认 Base 链
}

```

#### 5. NFT 列表、用户资产展示

可用 hooks 查询当前用户钱包拥有的 NFT，用于展示

```

import {
  useActiveWallet,
  useERC1155Tokens,
} from "thirdweb/react";

const { wallet } = useActiveWallet();
const { data: tokens } = useERC1155Tokens({
  contract: "0x9c38ed5bC072972dffc59bfaab6ADE77D3FC285B",
  owner: wallet?.address,
});

```

该整套方案在继续优化中