

# coal

Payment infrastructure for the AI agent economy.

OG Hackathon · Track 3

5 × OG Components

Mainnet Live

## THE PROBLEM

# AI agents can't pay for things.

Existing payment infrastructure was built for humans clicking buttons in browsers. Agents need something else.

- 1 No programmatic payment rails**

Stripe requires browser sessions, KYC, and human confirmation. Agents can't navigate checkout UIs.
- 2 No standard payment protocol**

No HTTP-native way to say "this resource costs money." Agents get 403 errors instead of price signals.
- 3 No verifiable receipts**

Payments settle on-chain but receipts live in centralized databases. No tamper-proof proof of commerce.

THE SOLUTION

# Stripe for agents. Built on OG.



## Hosted Checkout

One API call creates a session. Redirect humans or let agents pay via x402.



## x402 Paywalls

HTTP 402 with payment headers. Any URL becomes a paywall agents discover and pay.



## OG Proof Trail

Every payment: Base TX → OG Storage → OG Chain anchor. Tamper-proof.

HOW IT WORKS

# Two API calls to payments.

1

## Create Session

POST /api/checkouts with amount and redirect

2

## Pay On-Chain

Human or agent sends USDC on Base

3

## Verify

Coal confirms, fires webhook, grants access

4

## OG Proof

Receipt → Storage → Chain anchor

### HUMAN FLOW

```
POST /api/checkouts → { checkoutUrl }  
redirect → pay → /success
```

### AGENT FLOW · X402

```
GET /api/paywalls/:id/verify → 402  
parse x402 → sendUSDC → 200 OK
```

# Five components. All mainnet.

- **OG Storage**

MAINNET

Immutable receipts, merchant profiles, encrypted memory. Dual-layer: Log (permanent) + KV (live discovery mirror).

- **OG Chain**

MAINNET

CoalReceiptAnchor V2 — calls DASigners precompile for DA epoch. SHA-256 of every receipt anchored on-chain.

- **OG Compute**

MAINNET

AI commerce queries with per-response Sealed Inference (TEE attestation). Memory, routing, and policy evaluation.

- **OG DA**

MAINNET

Payment event streaming via gRPC sidecar. 6 event types. Real-time broadcast of every confirmed payment.

LIVE PRODUCT

# Not a demo. A real product.



## Checkout

Session → redirect → pay → success  
on Base.



## Paywalls

x402 gating with auto OG manifest  
publishing.



## MCP Server

11 tools. Any AI connects to discover +  
buy.



## Catalog Index

Any store → indexed on OG for agent  
discovery.



## Gasless Pay

ERC-3009. Agent never needs ETH.



## Receipts

3-step proof: Base → Storage → Chain.



## SDK (npm)

coal-react v0.4.1 — components +  
route helpers.



## Webhooks

HMAC-SHA256 signed events +  
subscriptions.

• [usecoal.xyz](https://usecoal.xyz)

• [store.usecoal.xyz](https://store.usecoal.xyz)

• [agent.usecoal.xyz](https://agent.usecoal.xyz)

• [mcp.usecoal.xyz](https://mcp.usecoal.xyz)

TRACTION

# Built fast. Shipped real.

5

OG components on mainnet

11

MCP tools live

6

Deployed apps

npm

coal-react v0.4.1

**MNEE Hackathon Winner**

1st Place — Best Commerce & Creator Tooling

**5 × OG on Mainnet**

Storage, Chain, Compute, KV, DA — all live

**MCP + Multi-Protocol**

A2A, IImS.txt, x402 Bazaar, Schema.org

Contract: 0x24a80A3Bb16d26D4063Ecd4B2fd64C6856E25E8b · OG Chain 16661

# x402: HTTP-native agent payments.

- 1 Discover**  
Agent hits a URL, receives 402 with payment requirements in x402 headers.
- 2 Pay**  
Parses price, network, and receiver. Sends USDC on Base via Coal API.
- 3 Verify**  
Coal confirms on-chain, publishes receipt to OG Storage, anchors hash on OG Chain.
- 4 Access**  
Re-request returns 200 with content. Proof trail verifiable by anyone.

```
// Agent discovers paypal
GET /api/paywalls/:id/verify
→ 402 Payment Required

// x402 response headers
X-Payment: base64({
  scheme: "exact",
  network: "eip155:8453",
  asset: "USDC",
  maxAmount: "10.00"
})

// Agent pays + verifies
sendUSDC(payTo, amount)
GET /verify → 200 OK
```

# coal

Payment rails for the agent economy.  
Catalog indexing as a service on OG.

PLATFORM  
usecoal.xyz

DEMO STORE  
store.usecoal.xyz

MCP SERVER  
mcp.usecoal.xyz

AGENT  
agent.usecoal.xyz

NPM  
coal-react

#OGHackathon

#BuildOnOG

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@HackQuest\_

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