

Impact Evaluator Grant

Milestone 2

Impact Evaluator Components

- **Impact Evaluator Console**

- POC is implemented using Taiga as the source
- The goal is to support a pluggable source for Claims.
- The console enables a workflow flow of:
 - Approve Tasks – (“Approved” tasks result in creation of “Approved” claims in composeDB
 - Distribute Funds for the completed task to the award recipient (“Earned” tasks result in creation of “Earned” claim in composeDB)
 - Submit for Payment:
 1. Retrieves “Approved” and “Distributed” claims from composeDB
 2. Pin claims to web3.storage
 3. Initiate Bacalhau Calc using web3.storage CID.

- **Bacalhau Server**

- Provides method for a user interface to initiate a Bacalhau program. It allows for information such as parameters and IPFS CIDs to be passed down to the Bacalhau program and any returned files to be passed back to the front end

- **Bacalhau Calc**

- Receives the CID for the claims pinned to web3.storage
- Calculates the rewards and balances them to the amount in the Approved Reward.
- Returns a Merkle tree of rewards.

- **Wrapper Contract**

- Receives a Merkle tree of rewards
- Sets a one-day challenge
- Host the token airdrop address

Reusability

Each of the components within this solution offers opportunities for reusability. The following outlines each component's current level of reusability and opportunities for improving future reusability.

- IE Console – the sources for the data fed into the evaluator for each round can be a pluggable component. The POC is implemented with Taiga as the source of the data, but additional sources can be added. The pluggable component would simply be an extract of the source data and a mapping to the standard claim model.
- Bacalhau – The compute component can be made a pluggable component allowing the implementor to customize the rules of the calculation.
- Wrapper Contract – The wrapper can support any ERC20 token.

IE Console Screenshots

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Disconnect (did:pkh:elp155:5:0x8cce0b984e08a05306fd8852217c23b79fa38334)

Approve Tasks

Total Approved Amount: 284.40
(All amounts are in USDC)

Task: User Story 2**Task Amount: 284.40**

Project: IE Test Project
Owner: mzaremskas
Effective Date: null

Approved Amount (USDC): 284.40
Available Amount (USDC): 284.40
Status: **Approved**

Approved Stream ID: kjz16kcyw7w8ya8cdq4ua76zt81ef6bys01i85hyigtdt8opq8lfz2zimugzvq

Task: User Story 3**Task Amount: 283.20**

Project: IE Test Project
Owner: mzaremskas
Effective Date: null

Approved Amount (USDC): 0.00
Available Amount (USDC): 283.20
Status: **Needs Approval**

Approve

Task: User Story 5**Task Amount: 280.40**

Project: IE Test Project
Owner: mzaremskas
Effective Date: null

Approved Amount (USDC): 0.00
Available Amount (USDC): 280.40
Status: **Needs Approval**

Approve

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Disconnect (did:pkh:elp155:5:0x8cce0b984e08a05306fd8852217c23b79fa38334)

Distribute Approved and Completed Tasks

Total Distributed Amount: 285.40

Task: User Story 1**Task Amount: 285.40**

Project: IE Test Project
Owner: mzaremskas
Effective Date: 2023-01-22

Approved Amount: 285.40
Distributed Amount: 285.40
Available Amount: 0.00
Status: **Submitted**

Earned Stream ID for chris: kjz16kcyw7w8y6uupq8jglb6u67r8c5zseqwh9qyazfm31q1s02rr0xdmnpbp43
Earned Stream ID for chowdhury.sami.al: kjz16kcyw7w8y6c24gd10cbq99hohtknsoneilaojltuzlfr8s0jlvaj6kbcus

Task: User Story 4**Task Amount: 282.60**

Project: IE Test Project
Owner: mzaremskas
Effective Date: 2023-01-23

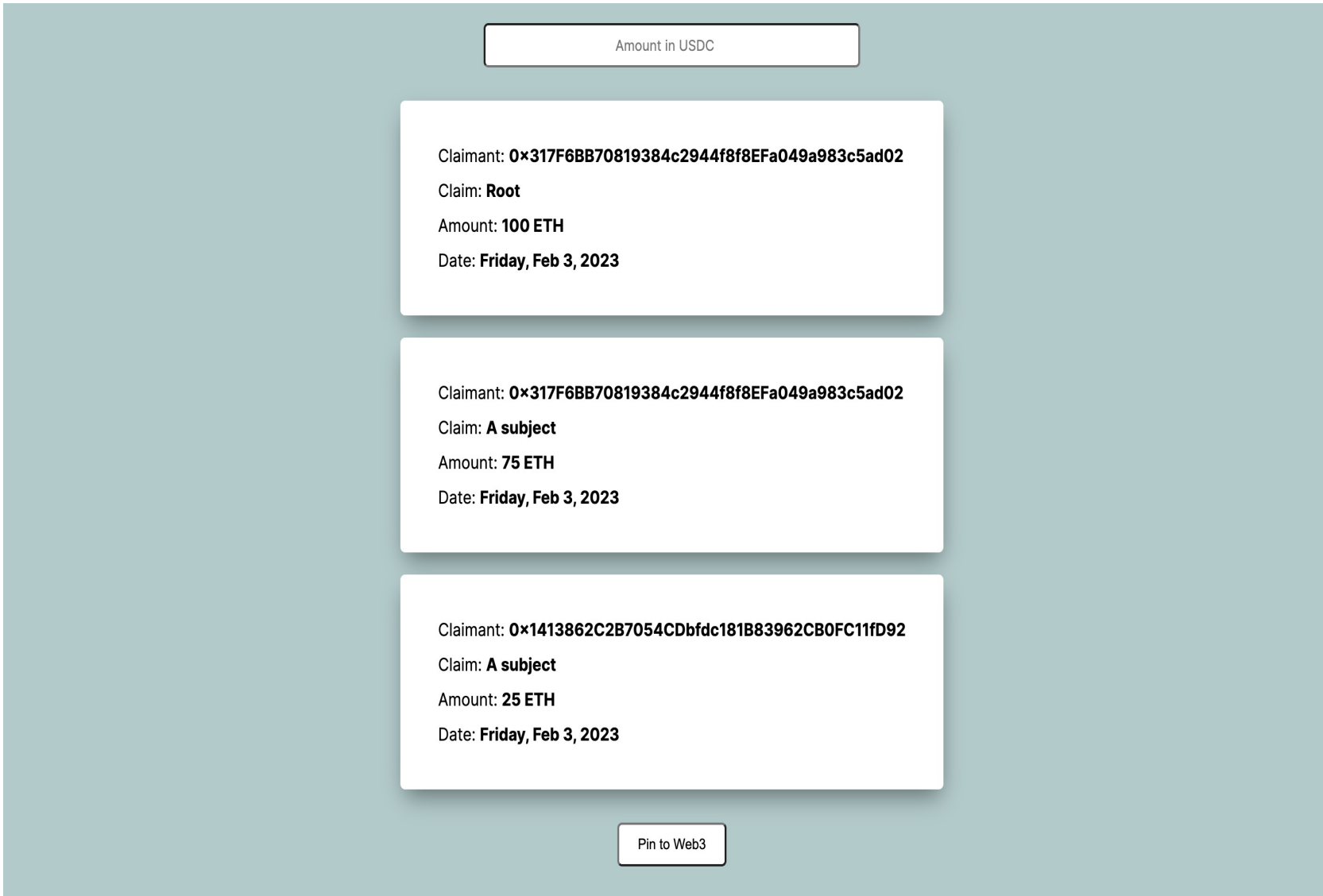
Approved Amount: 282.60
Distributed Amount: 282.60
Available Amount: 0.00
Status: **Task Complete**

Remaining funds to be distributed: 0.00

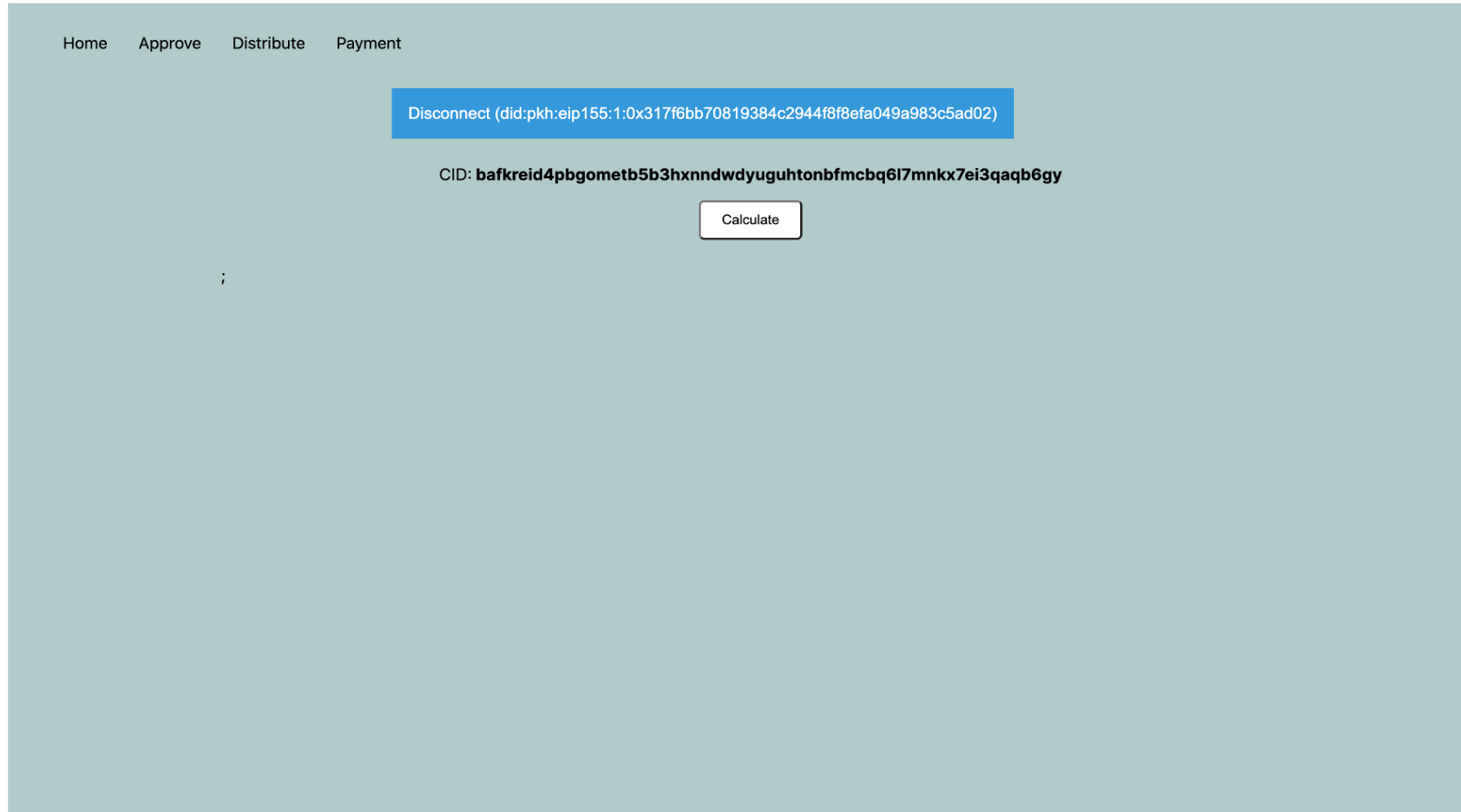
| Member | Amount | |
|-------------------|--------|--------|
| chowdhury.sami.al | 100 | Remove |
| chris | 182.6 | Remove |

Add Submit

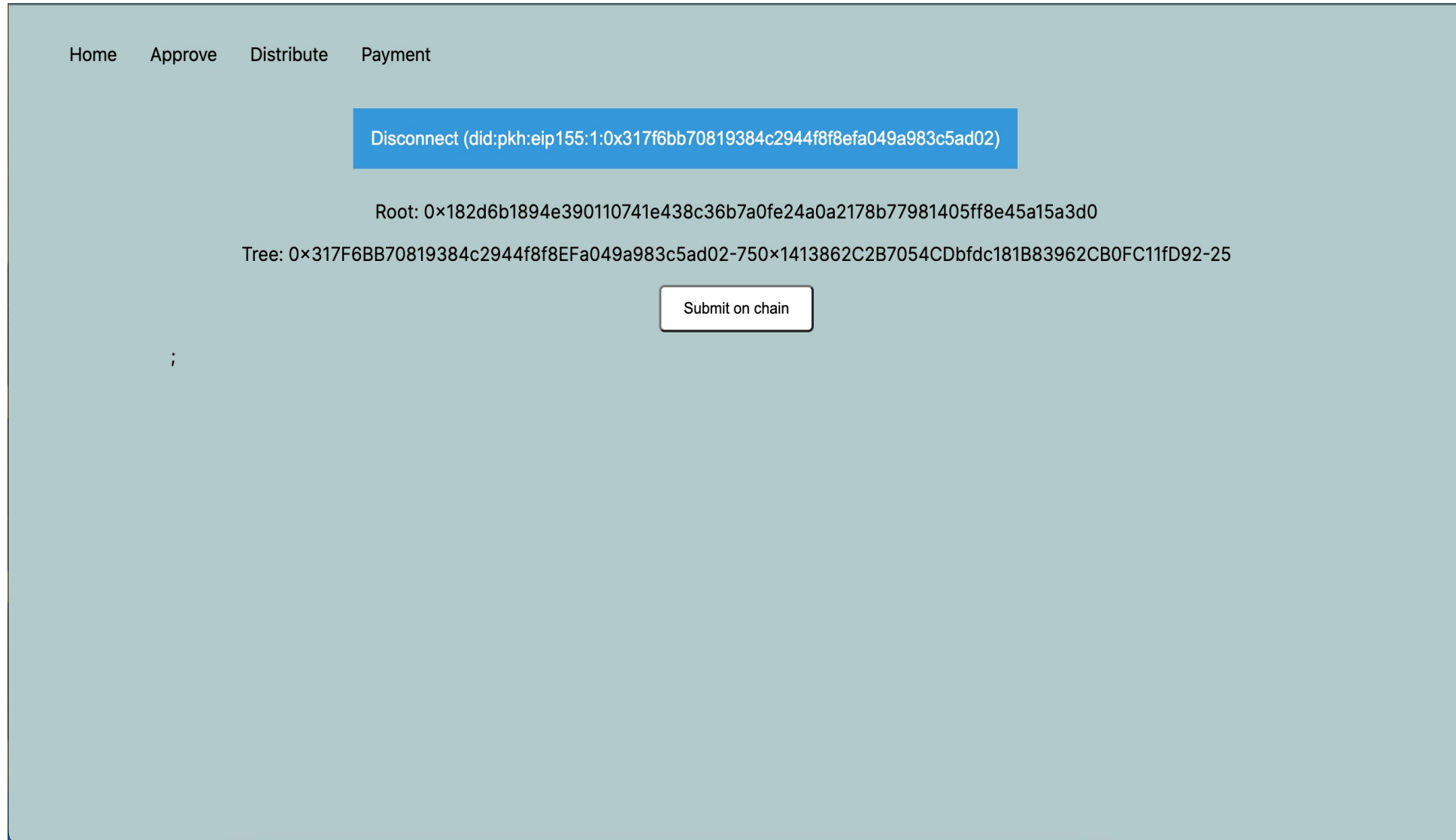
IE Console Screenshots



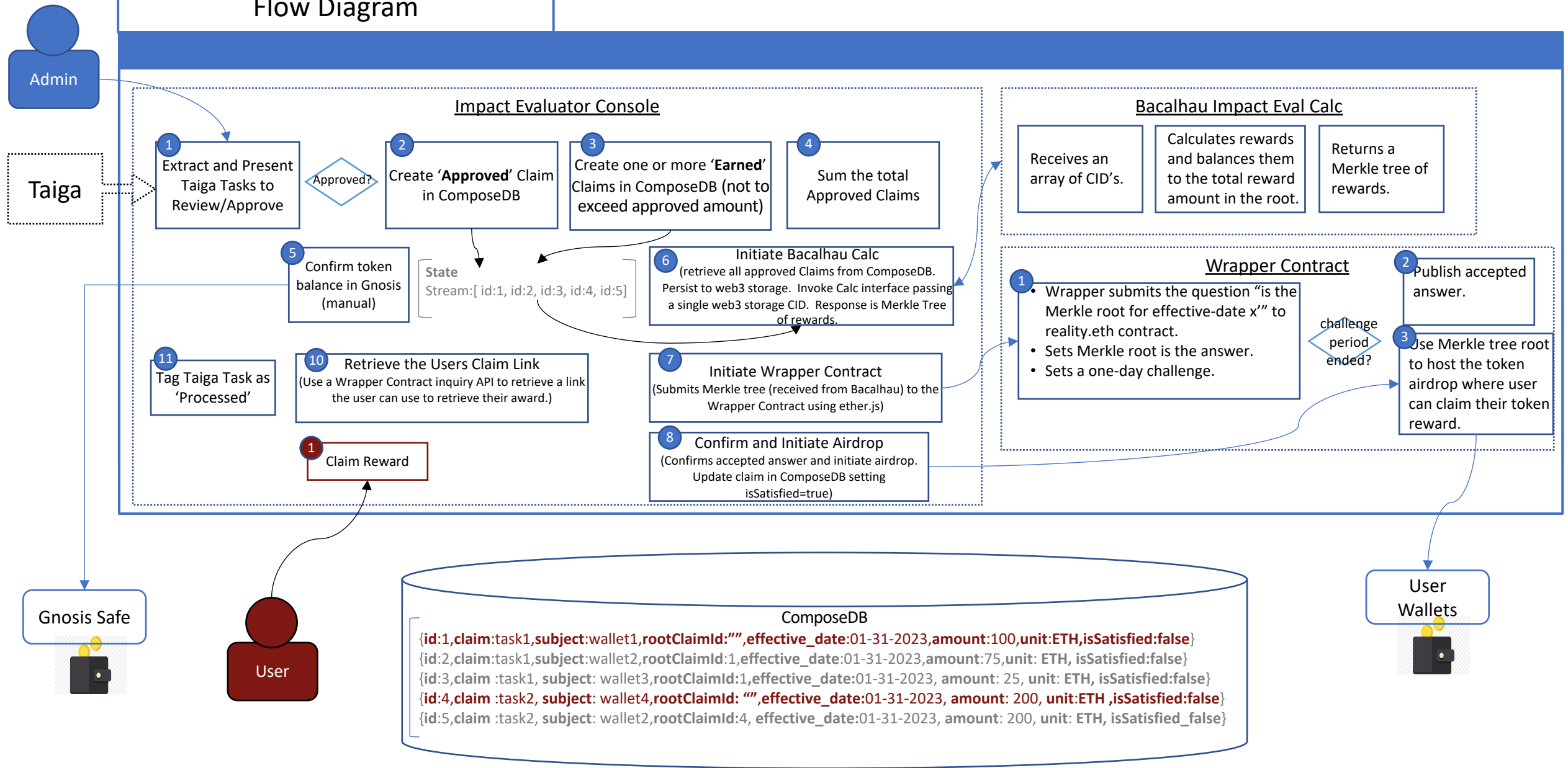
IE Console Screenshots



IE Console Screenshots



Flow Diagram



Claim Model

```
type IEClaim
@createModel(
  accountRelation: LIST
  description: "Claim or attestation, possibly from 3rd party sources"
) {
  subject: String @string(minLength: 1, maxLength: 256)
  claim: String @string(minLength: 1, maxLength: 1024)
  root_claim_id: String @string(minLength: 1, maxLength: 1024)
  round: String @string(minLength: xx, maxLength: xx)
  amount: Int
  amountUnits: String @string(minLength: 1, maxLength: 16)
  isSatisfied: Boolean @boolean
  effective_date: String! @string(minLength: 1, maxLength: 10)
  statement: String @string(minLength: 1, maxLength: 16384)
  source: String @string(minLength: 1, maxLength: 1024)
  digestMultibase: String @string(minLength: 1, maxLength: 256)

  aspect: String @string(minLength: 1, maxLength: 256)
  object: String @string(minLength: 1, maxLength: 1024)
  confidence: Float @float(min: 0, max: 1)
  rating: Float @float(min: -1, max: 1)
  intendedAudience: String @string(minLength: 1, maxLength: 256)
  respondAt: String @string(minLength: 1, maxLength: 1024)
}
```

Resources

[Impact Evaluator Git repository](#)

Approved Claims will not have a root_claim_id value. Earned claims will have the stream id of the Approved claim.