



Block-chain Relief Fund Network

Ratq Science & Tech

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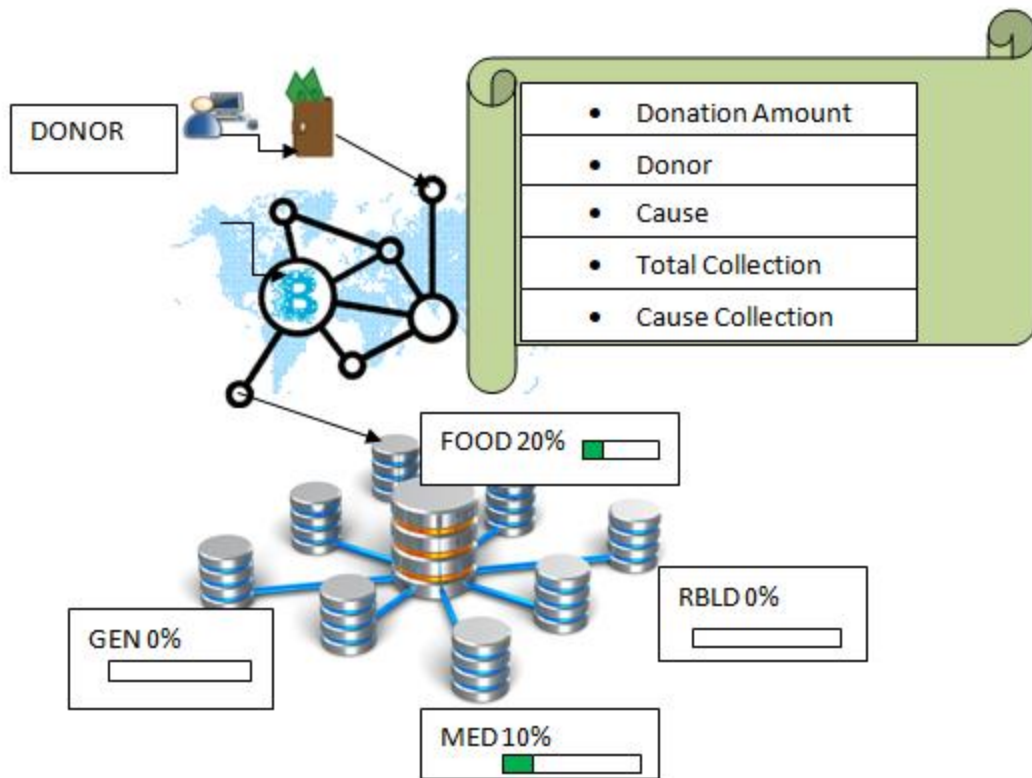
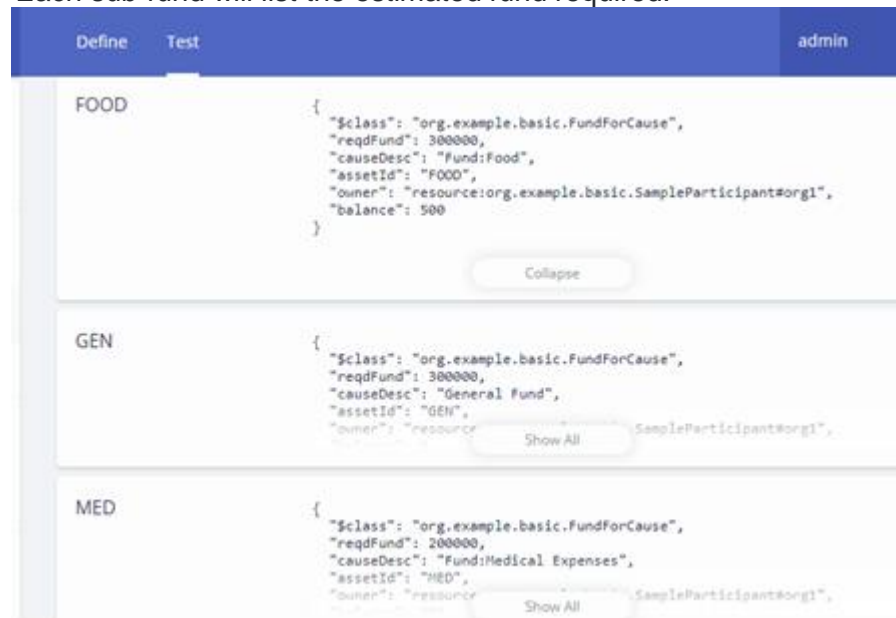


Figure 1: System Architecture

System Overview:

— Phase 1:

1. NGOs will list the sub-funds dedicated to specific cause.
2. Each sub-fund will list the estimated fund required.



3. Donor will donate to for particular cause using block chain wallet.

```

1  {
2    "$class": "org.example.basic.SampleTransaction",
3    "donor": "resource:org.example.basic.SampleParticipant#donor1",
4    "org": "resource:org.example.basic.SampleParticipant#org1",
5    "cause": "resource:org.example.basic.FundForCause#RBLD",
6    "amount": 100
7  }

```

4. Transaction records will be generated.

Historian Record

Transaction Events (1)

```

1  {
2    "$class": "org.example.basic.SampleTransaction",
3    "donor": "resource:org.example.basic.SampleParticipant#donor1",
4    "org": "resource:org.example.basic.SampleParticipant#org1",
5    "cause": "resource:org.example.basic.FundForCause#RBLD",
6    "amount": 100,
7    "transactionId": "67c29fc7-ea10-414b-b2cb-29b6892d13e0",
8    "timestamp": "2018-09-28T12:49:12.854Z"
9  }

```

5. Record should show:
- Amount of money transferred,
 - Name of donor and organization
 - Donor's balance after transaction

- Total collection of the organization after transaction.
- Total collection for the particular cause

```

2  "$class": "org.example.basic.SampleEvent",
3  "donor": "resource:org.example.basic.SampleParticipant#donor1",
4  "receiver": "resource:org.example.basic.SampleParticipant#org1",
5  "fund": "resource:org.example.basic.SampleAsset#fund01",
6  "wallet": "resource:org.example.basic.SampleAsset#wallet01",
7  "donorName": "Ajoy Sen",
8  "orgName": "ABC Org",
9  "txnAmt": 100,
10 "donorBalance": 2300,
11 "rcvrBalance": 1200,

```

6. Funds, Sub-Funds, Wallets are updated accordingly.

```

-  -----
7  "donorName": "Ajoy Sen",
8  "orgName": "ABC Org",
9  "txnAmt": 100,
10 "donorBalance": 2300,
11 "rcvrBalance": 1200,
12 "causeBalance": 100,
13 "requiredFund": 5000000,
14 "eventId": "67c29fc7-ea10-414b-b2cb-29b6892d13e0#0",
15 "timestamp": "2018-09-28T12:49:12.854Z"
16 }

```

Phase: 2

- Donor can also track the fund disbursement
- Disbursement will also record the details of local partners where fund got disbursed