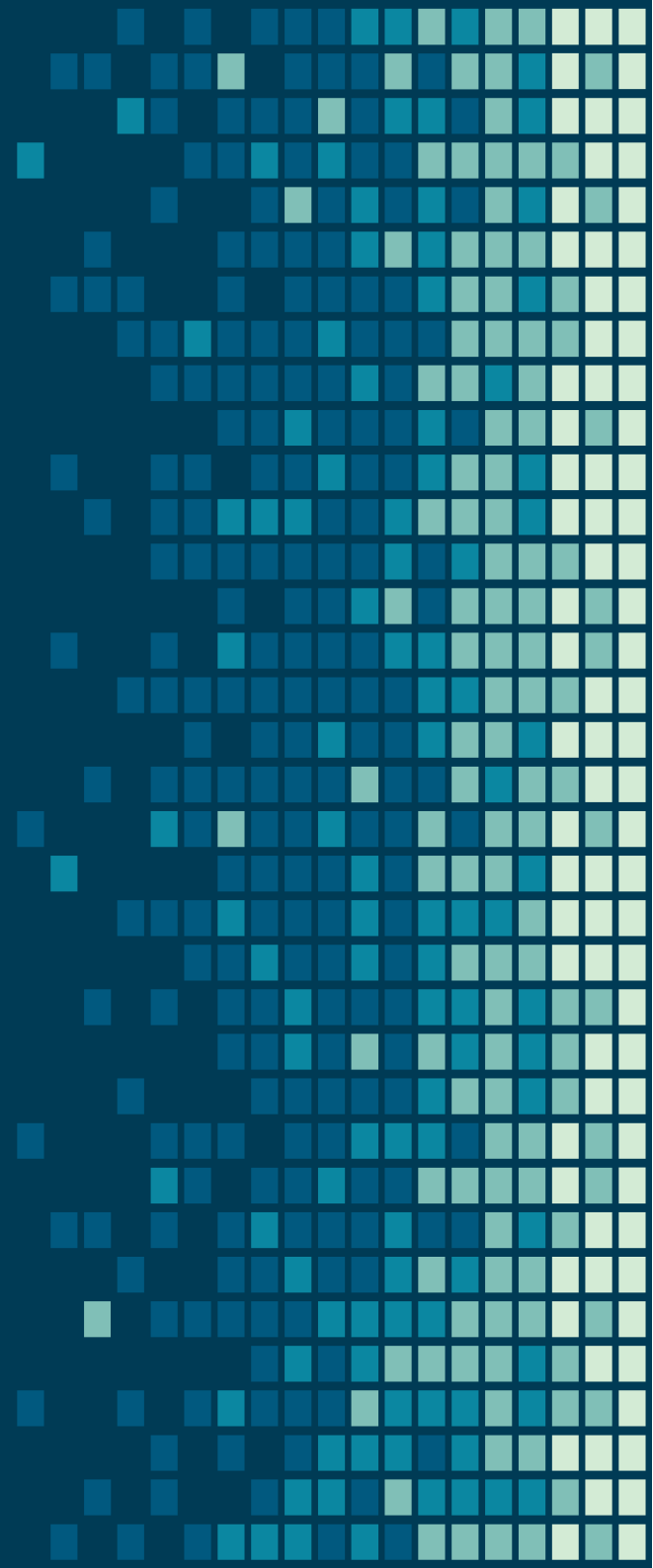# SubConn
Subsidy Connections

GDG VIT Vellore

Team GDG-VIT

Members

- Apurva Nitanjay
- Nishant Rodrigues
- Surya K
- Vineeth S

1.
PROBLEM STATEMENT

Let's start by explaining the problem we are trying to solve.

Problem Statement

- The government spends Rs. 750 billion ($13.6 billion) per year on the Public Distribution System (PDS).

- With the total subsidies provided added up to a staggering Rs. 2400 billion.

Problem Statement Contd.

- These services do not reach the targeted people due to **corruption** in the system.

- This is clearly visible by the fact that **21%** of the population still remain undernourished.

2.

SOLUTION

Our solution!

Solution

- Tracking the products from the supplier to the consumer through the chain.

- Eimiminate tampering by middlemen.

- Maintain quality control of the goods.

"

You must be the change you wish to see in the world.

- Mahatma Gandhi

3.
METHODS
APPLIED

A method to the madness.

Expected output

- Reduce losses to 10%.

- Prevent theft by middlemen.

- Good quality produce reaches targeted consumers.

Tools and Platforms

- Tagging each item using a QR code.

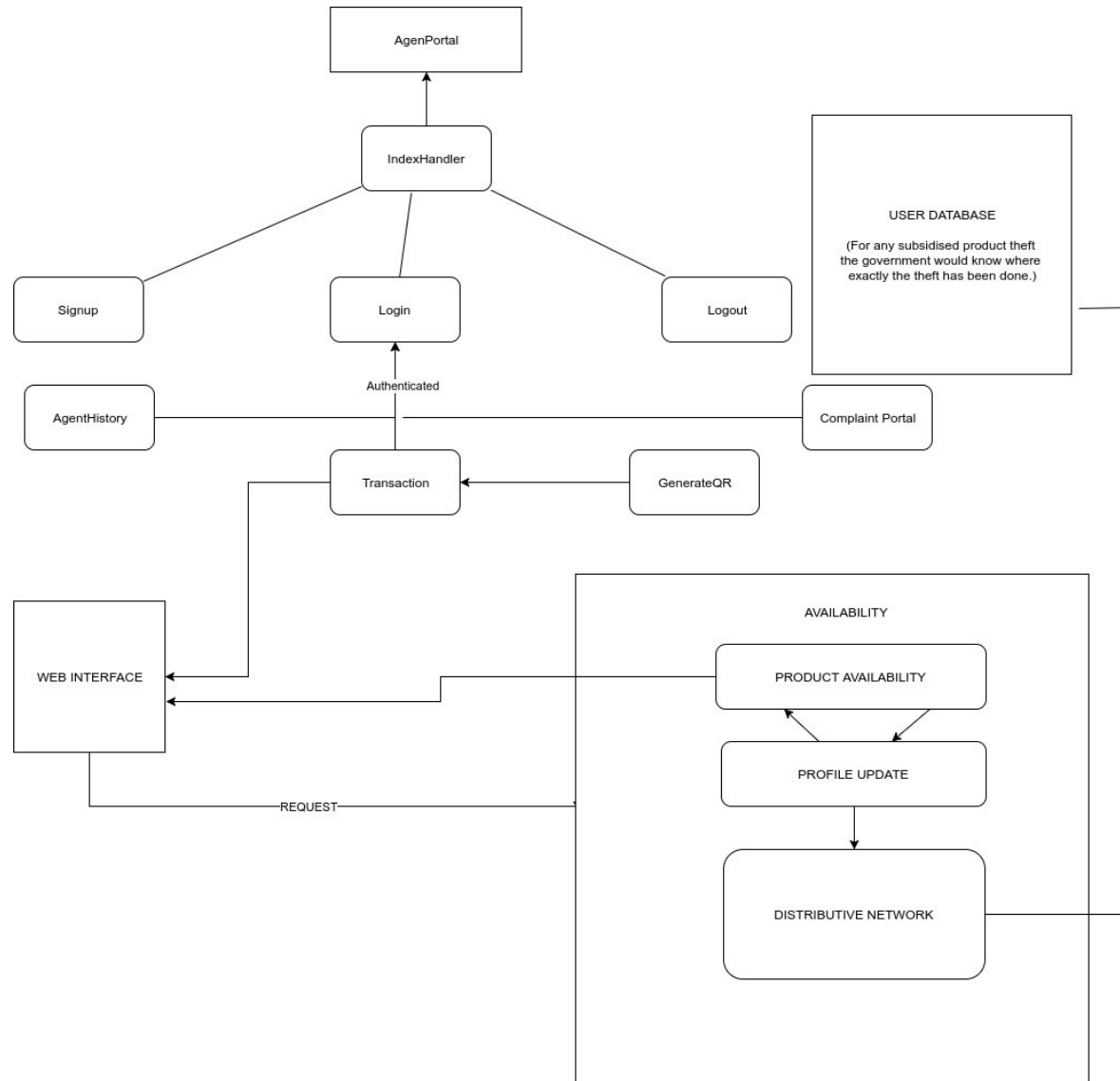- Development of a Progressive Web Application (PWA).

Tools and Platforms Contd.

- Secure and open database using NoSQL and Blockchain to prevent any tampering.

- Aadhar API to validate and verify the agents and consumers.
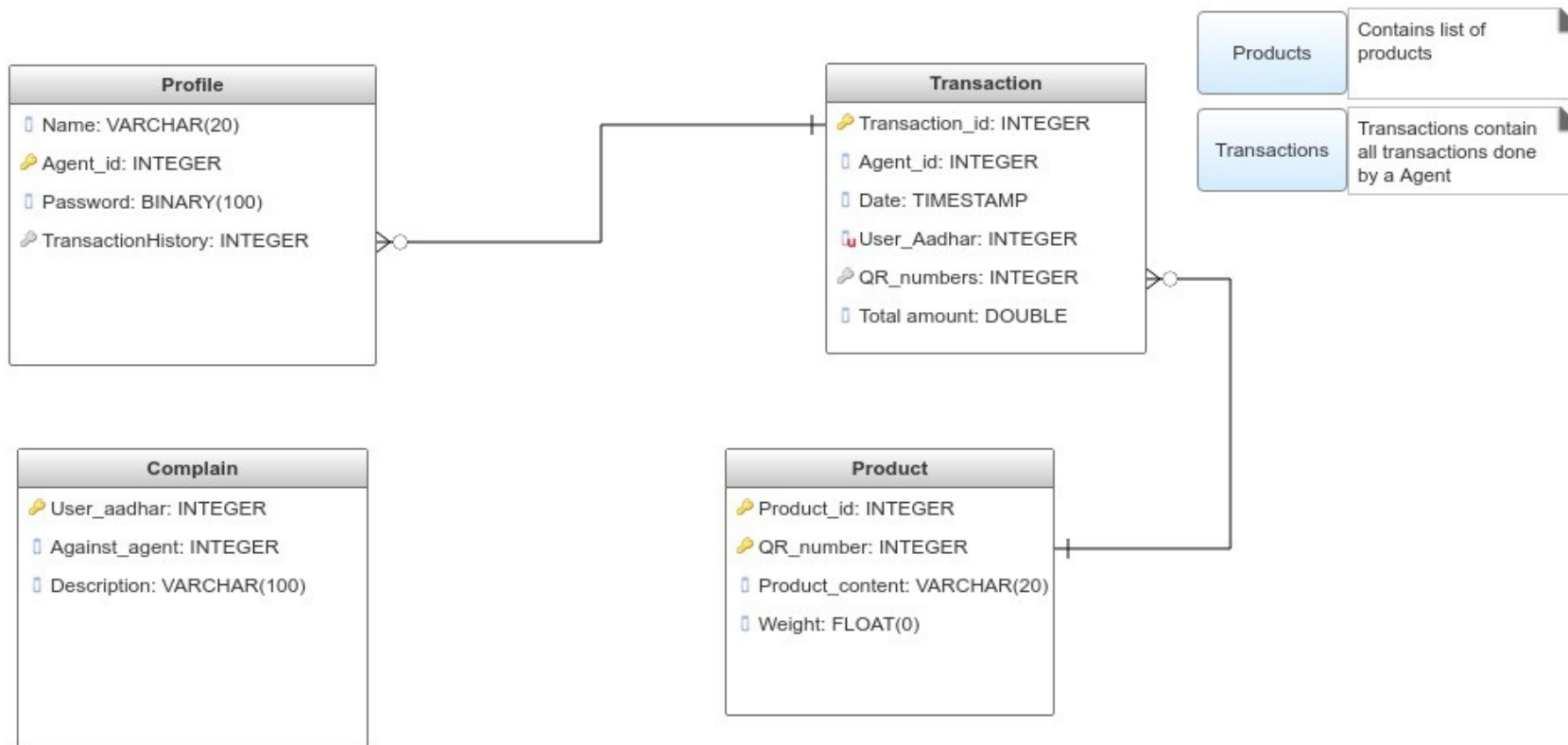
4.

ARCHITECTURE DIAGRAM

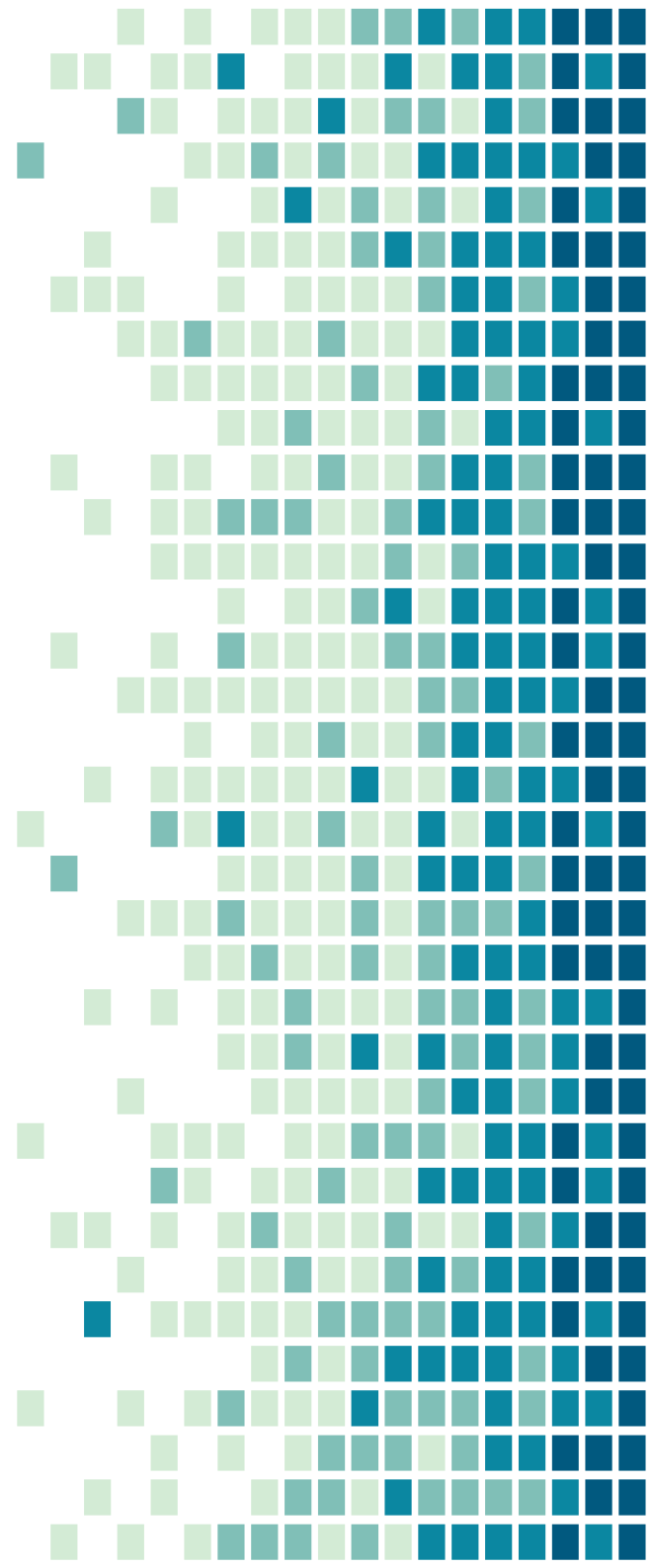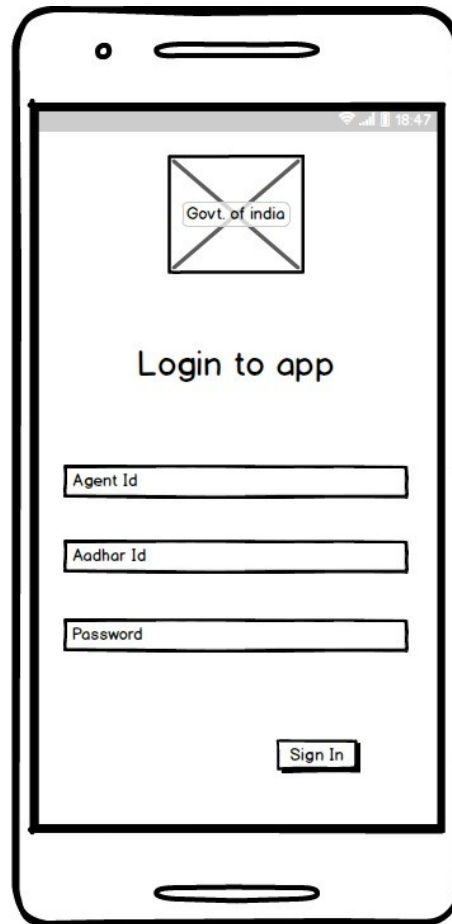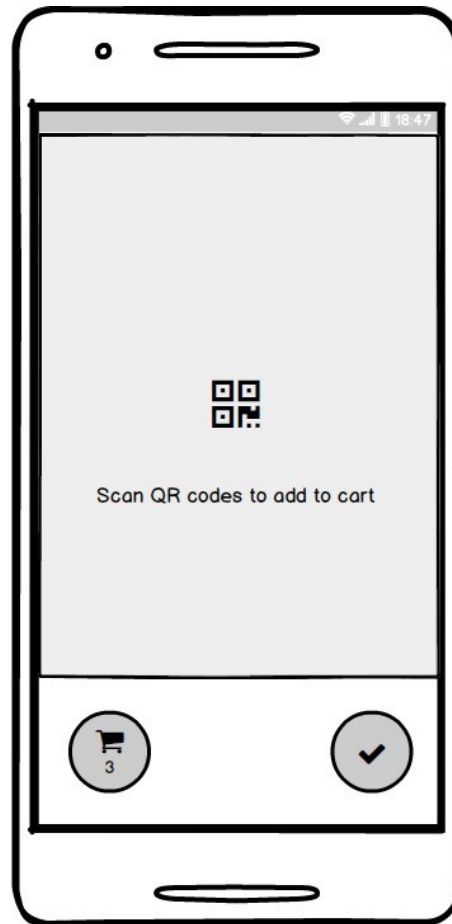A look at the inside.

Data Flow Diagram

Metadata

Profile
- Name: VARCHAR(20)
- Agent_id: INTEGER
- Password: BINARY(100)
- TransactionHistory: INTEGER

Transaction
- Transaction_id: INTEGER
- Agent_id: INTEGER
- Date: TIMESTAMP
- User_Aadhar: INTEGER
- QR_numbers: INTEGER
- Total amount: DOUBLE

Products	Contains list of products
Transactions	Transactions contain all transactions done by a Agent

Complain
- User_aadhar: INTEGER
- Against_agent: INTEGER
- Description: VARCHAR(100)

Product
- Product_id: INTEGER
- QR_number: INTEGER
- Product_content: VARCHAR(20)
- Weight: FLOAT(0)

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5.
WIRE FRAME
Application Layout.

Login

QR Code

Cart
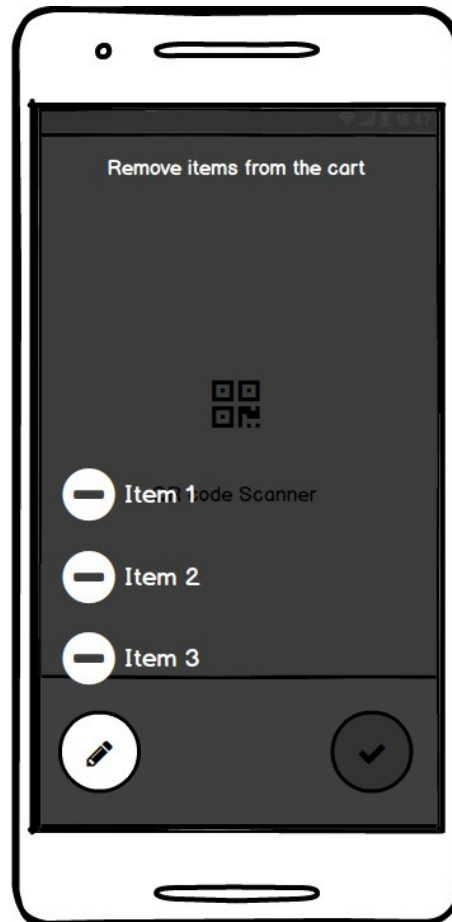
Error Handling

Success Message

Transaction Successful
ID : Z07BSNEWI43
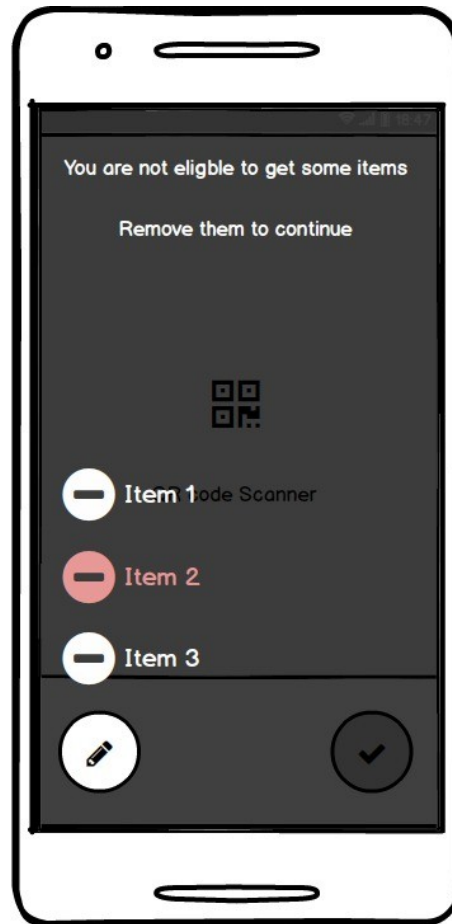
6.
Expansion

What can this be transformed into?

Scope for Expansion

- Can be easily scaled and applied to various Producer – Consumer chains for management.

- Modules are completely flexible for any verification based schemes. Eg. NREGA

THANKS!

Any questions?

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