DRUG CHAIN SUPPLY MANAGEMENT

**About the project:**

With the help of Hash ID stored on the block chain, distributors can verify the origin of medicines after collecting them from the logistics service providers.

Distributors validate the received medicines and sign the transaction digitally, which is then added to the block chain**.**

**Problem:**

The technology can significantly enhance transparency, security, and efficiency throughout the entire supply chain, benefiting both industry participants and, ultimately, patients

**Solution:**

Facilitating secure and selective sharing of data among supply chain participants.

1. Benefits: Protect sensitive information, enhance collaboration, and ensure that each participant has access to the necessary data.

2. Enhance patient trust, empower informed decision-making, and support patient safety initiatives.

3. Protect sensitive information, enhance collaboration, and ensure that each participant has access to the necessary data.

**WORKFLOW**:

1. Manufacturer crate a Drugs with unique id with manufacture date and expiry date
2. Distributor create order and delete, check and update order.
3. Hospital or pharmacist tracing order and create order, verify order details and create order.
4. Patient also have traceability for drug details

**Application Prerequisites**

Knowledge of Hyperledger fabric, working on linux terminal, golang.

**Installation**

A detailed documentation needed for installation is mentioned here.

How to run the application according to the workflow

A detailed documentation needed for this step is mentioned here.

Chaincode Functions

Two smart contracts are implemented for two assets(Project and Project).

1. DrugContract

a. CreateDrug: Creates Drugs.

b. ReadDrug: Read Drugs

c. DeleteSrug: Deletes order

d. GetDrugHistory: Fetch the history of a specific drugs.

f. GetAllDrug: Fetch all the drugss.