PROJECT PITCH DECK

BLOCKCHAIN INTEGRATION PHARMA MANUFACTURE & SUPPLY CHAIN SYSTEMS (BIPMSS)

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USE CASE

- This use case will help in better understanding the hierarchy of Manufacture and Delivery System for Pharma using Hyper ledger blockchain-based solution that solves the tracking and tracing of Pharma products.

- Block chain can help companies combat counterfeiting by reliability identifying the proof-of-origin of a product which has Time stamp, QR, Manufacturer details with Product info & usage.

- The traceability using QR/ Hash ID with block chain integration will help in the enhancement of the system and provide secure, faster delivery and better efficiency for the system.

- The system will also help to reduce the cost of delivery of the products to the end users.

- Customer will be Benefitting and building the trust on the Quality and availability of the Pharma Products

WHY FABRIC

- As it is a permission-based distributed Hyper ledger platform, it provides more security to the system.

- Smart contracts enable to self-execute of terms and policies between organization.

- Enables performance at scale without compromising privacy ,Quality & Safety standards as per the ISO standards

- Transactions are trackable, irreversible and comparatively fast which enhance security, reduces costs and time

- More control of the network enables authorization for read-write access

WORKFLOW

ASSETS

PHARMACY products -

One of the major asset in this system is having Quality ,trust, tracking on the products using perform various transactions fields like Manufacturer ID, License, QR, Product Info, Product type, Product origin, product manufactured Date & expiry etc. , as per the ISO and Pharma standards.

- **Manufacturer :**

  Manufacturer is the first entity in the supply chain, who make sure supply chain is continuous based on the demand of end consumer

- **Distributor :**

  The distributor acting as an intermediary between the Manufacturer and the downstream entity.

- **Pharmacist (Retailer):**

  Retailer receives the product from distributor and sell it to the customer.

- **Patient (Customer):**

  Customers buy the products from the Pharmacy stores and receive the product expiry details , manufacturer details along with product info & usage.

PARTICIPANTS

TRANSACTIONS

- **create Product:**

  To create a new product

- **product Exists:**

  To check whether the product is available or not.

- **read Product:**

  To read the existing product.

- **update Product:**

  To update the already existing product details.

- **delete Product:**

  To delete the unwanted or expired products

FUTURE ENHANCEMENTS

- Increasing the number of Products & Brands.
- Cancellation of the products.
- Improved traceability.
- Real time notification about the updates of products.
- Improve timely delivery with safety and security.
- Improved security in transactions.

THANK YOU