**Title:** Enabling trust and transparency in Drugs and Medicine supply chain and delivery system.

**Problem Statement:**

1. In this COVID-19 pandemic situations, people are getting aware of being Healthy and immune as well as there has been a huge demand of Medicines in Market. Taking advantage of such situations, medical stores and wholesalers are selling the selling the medicine at higher rates and since demand is getting increased manufactures are taking advantage of it and labelling the product with high priced tags.
2. In general, the prices of medicines are comparatively high and is with huge profit margins and people generally hesitate to negotiate on such MRPs since it is related to once Health and body.
3. Many of the people are still of aware that Medicine with the same content and compositions are available with the much cheaper price and with same quality.
4. Medical sector is one of the booming sectors and there is lack of transparency and trust between the buyer and the seller.

**Solution:**

1. Implementing a system on Public Blockchain to provide transparency between the Wholesalers, store managers and end customers.

**Blueprint of Model:**

NODE 3

NODE 2

NODE 1

NODE 5

NODE 6

NODE 4

Nodes are symbolic representations of Medicine distributors and Buyers.

***Process Flow:***

1. Distributor’s Node will have two entities: General Ledger and Database of available Medicine while customers will only have General ledger.
2. Customer will send a purchase request to a particular Medical Store and store will check for the availability of medicine and its price and will display the details over network.

* If Medicine is not available the transaction is cancelled.
* But if medicine is available, the network will check the authenticity of price
* If price is genuine, the transaction is authenticated. [ 51% nodes authenticity]
* If price is not genuine, the other nodes will publish their price to customers.
* The customer will choose for another price and perform the transaction.

1. The transaction validation will follow basic protocol of Blockchain [ POW, POS etc.] and then Block will be created only have transaction details.
2. No data related to price will be stored over network, it will be stored in temp. memory for displaying to customer and to perform transactions and later it will flushed.
3. Once, transaction is completed, the smart contract will pick the best Delivery agent in the location and delivery will be arranged.