

# Saving lives by eliminating counterfeit drugs

Learn how Deqode is harnessing the power of blockchain to streamline and safeguard the manufacturing and supply of legitimate drugs versus counterfeit ones



deqode.

## Challenge

### Client issues and requirements

- To track the manufacture and supply of legitimate drugs versus counterfeit ones
- Reduce the cost of enforcement, monetary as well as human resources
- Detect Faults and increase transparency in the supply chain, including drug manufacturing, supply, and dispensation
- Provide a secure network to store data which can prove the pharmaceutical product's origin, trace its ownership and provide authentication

### Framework

Hyperledger fabric

## Deqode's Solution Overview

### How we helped the client realize his goals

- Every medicine packet or bottle was assigned a unique, cryptographically protected identifier, which allowed the manufacture and transport of these items to be identified, and verified as legitimate products
- As the drug moved through the supply chain, each transaction was noted and time-stamped using the ledger to ensure security and safety of the product
- A platform where participants could contribute and access the encrypted, unalterable ledger on the decentralized network and check authenticity of the delivered product

### Tech Stack

*Languages/ Runtimes/*

*Frame works:*

Node.js, Ruby on Rails, BASH, React.js

*DevOps, DB, and*

*Other Utilities:*

Kubernetes, Docker, IPFS, HAProxy, Redis, PostgreSQL, GitLab CI/CD Pipeline