

# Drug Inventory Management System

## Project Overview

---

Drug Inventory Management System provides a platform for the chemist to order medicinal drugs from the supplier. Once an order is at supplier end, supplier checks the chemist authenticity with legal records and then accept an order accordingly. Supplier fulfils the order by checking the availability of drugs in inventory, if stock is available then an order is delivered by transportation department else supplier send bid request to manufacturers or request order from other suppliers. Manufacturers will send quotation; and on bases of time and cost, supplier chooses the manufacturer. We aim to build a system which provides a comprehensive and simple Inventory management system.

## Application Key functionality

---

- Create an order request
- Check authenticity by legal department
- Deliver order by transportation department
- Send bid request to manufacturers if drug not in stock
- Persist all data using Object Store and retrieve it on application start-up
- Email functionality and Auto-password generation

## Proposed Entities

---

Enterprises: Chemists, Suppliers, Manufactures, Legal department, Transportation department

Roles: Chemist Worker, Chemist Manager, Legal Validator, Supplier, Transporter, Producer

Items: Drug, bids for drugs by manufacturers, Quotations

## Additional features

---

- Prediction of drugs orders to be made by chemist to meet customers demand
- Analysis of various entities in system with visualization for better understanding
- Payment gateway to handle the payment between various entities

## End-to-End flow

---

Chemist raises order request to specific supplier based on suggestion from prediction model. Supplier checks the order request and fulfils the order based on availability of the drugs in inventory. Supplier sends request to legal authorities to check authenticity of ordered drugs. If drugs are not in inventory, supplier request drugs from other suppliers or send bid request to manufacturers. Manufacturer sends quotation and supplier selects manufacturer. Once manufacturing of drug is done drugs are updated in inventory and transportation department delivers the order to chemist.