The Drug Inventory and Supply Chain Tracking System is a robust and practical way to improve the convenience, the transparency and the security of the distribution of pharmaceutical products. The system is able to deploy the right drugs at the right time, at the right place and at the right price through utilisation of artificial intelligence, real time monitoring and data analytics. It has an embedded e commerce platform that binds together the vendors and distributors to make the purchase and distribution process more effective.

Key requirements include the ability to forecast consumption using AI, the availability of an interactive dashboard for monitoring the level of stock and consumption, and existing proper systems for protecting classified information. The intended system has several benefits since it will help in addressing the issue of medicine shortage, improve deck use efficiencies and cut back on unnecessary costs which will translate to benefits to hospitals and other related practice entities. Also, it improves vendor performance and allows for evidence-based health policy making.

This system is most likely to provide inefficient benefits in almost every other area including social, economic and even environmental aspects as it helps in increasing medicine access, improving disposal of medicines, and decreasing out of the pocket spending on healthcare. Its architecture is efficient due to its cloud-based structure and is able to expands and adhere to policies and regulations set forth by the government.