

SYNOPSIS

Report on

Drug Inventory and Supply Chain Tracking System by

Aryan Sain (2300290140041)

Arjun Srivastava (2300290140039)

Ashraf Khan (2300290140042)

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**Under the supervision of
Mrs. Komal Salgotra(Assistant Professor)**

KIET Group of Institutions, Delhi-NCR, Ghaziabad



**DEPARTMENT OF COMPUTER APPLICATIONS
KIET GROUP OF INSTITUTIONS, DELHI-NCR,
GHAZIABAD-201206
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ABSTRACT

The Drug Inventory and Supply Chain Tracking System aims to streamline the procurement and distribution of pharmaceutical drugs to healthcare institutions. The system ensures the right drug in the right quantity is available at the right place and time, under the right conditions, for the right cost. The goal is to improve efficiency and effectiveness through robust quality controls and real-time monitoring of drug supply chain activities. It features vendor activity tracking, drug consumption analysis, and a dashboard for online monitoring. This ensures transparency and helps healthcare institutions manage inventory, reducing shortages and overstocking, leading to optimized costs.

The primary objectives of the system include optimizing drug distribution to ensure adequate stock levels at hospitals and clinics, thus preventing overstocking and shortages. The system incorporates advanced quality control measures to maintain high standards in drug procurement and distribution, ensuring that only the best quality medications are delivered. Key features include a dashboard-based monitoring interface for real-time tracking of procurement and distribution activities, robust vendor activity tracking to ensure transparency, and effective drug consumption monitoring to identify usage trends and predict future demand.

Additional functionalities include cost optimization to reduce procurement and distribution expenses, and role-based user access control to provide tailored access to stakeholders. The system's comprehensive reporting capabilities offer insights into stock levels, vendor performance, drug usage, and overall supply chain efficiency, enabling data-driven decision-making.

By improving the accuracy and efficiency of drug distribution, enhancing transparency, and reducing costs, the Drug Inventory and Supply Chain Tracking System significantly contributes to better healthcare delivery. The system's ability to ensure timely availability of essential drugs and provide valuable insights into consumption patterns supports improved patient care and overall healthcare outcomes.

Keywords: Drug Inventory, Supply Chain Management, Healthcare, Real-time Monitoring, Vendor Tracking

TABLE OF CONTENTS

	Page Number
1. Introduction	--
2. Literature Review	--
3. Project / Research Objective	--
4. Project Flow/ Research Methodology	
--	
5. Project / Research Outcome	--
6. Proposed Time Duration	--
References/ Bibliography	
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REFERENCES/ Bibliography

<Sample Format>

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