

# HACKERSTELLAR

THE ULTIMATE SPACE HACKING EXPERIENCE

## Blockchain Development

Supply chain management (SCM) is oversight and control of all the activities required for a company to convert raw materials into finished products that are then sold to end-users. Currently supply chain has been grappling through many issues like:

- Rising risks in the supply chain.
- Unexpected delays.
- Cost control.
- Collaboration and syncing of data across the supply chain.
- Increasing freight prices.
- Difficult demand forecasting.
- Digital transformation.
- Port congestion.

Supply Chain consists of lot of actors right from Supplier-->Manufacturer--->Regulator--->Logistics--->Wholesaler---Retailer---Consumer

To overcome the above problems, we need a team of hacktronauts to develop a blockchain based supply chain network:

1. supply chain lifecycle to be written to blockchain.
2. complete data visibility and a single source of truth
3. companies can query a product's status and location at any point in time.
4. self-executing Smart contracts with the terms of the agreement between buyer and seller

Objective:

This would result in:

1. Transparency: Blockchain technology can provide real-time visibility and tracking of goods and products throughout the entire supply chain
2. Product Authentication: Blockchain can be used to verify the authenticity of products and prevent counterfeiting by enabling secure and tamper-proof records of a product's origin.
3. Quality Control: Blockchain can be used to track the quality of products as they move through the supply chain.
4. Finance: Blockchain can be used to facilitate supply chain finance, providing secure and transparent records of transactions between suppliers, manufacturers, and distributors.
5. Smart contracts: using blockchain technology to automate and streamline supply chain processes, reducing costs and improving efficiency.