

## BOFSC: A Blockchain Based Decentralized Framework to Ensure the Transparency of Organic Food Supply Chain

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**Abstract :** Blockchain is an internet-based invention that is coveted in the permanent, scumbled record for its capacity to openly accept, record, and distribute transactions. In a traditional supply chain, there are no trustworthy participants for an organic product. Yet blockchain engineering may provide confidence, transparency, and traceability. Blockchain varies in how companies get real, checked, and lasting information from their supply chain and lock in customers. In an arrangement of cryptographic squares, Blockchain digitizes each connection by sparing it. No one person may alter the documents, and any alteration within the agreement is clear to all. The coming to the record is tamper proof and unchanging, offering a complete history of the object's life cycle and minimizing opening for extorting. The primary aim of this analysis is to identify the underlying problem that the customer faces. In this post, we will minimize the allocation of fraud data through the 'Smart Contract' and include a certificate of quality assurance.

**Keywords :** blockchain technology, food supply chain, Ethereum, smart contract, quality assurance, trustability, security, transparency

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