



USE OF BLOCKCHAIN TECHNOLOGY IN FOOD SUPPLY CHAIN TRACEABILITY SYSTEM: AN INDIAN PERSPECTIVE

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Abstract - For last few years, food traceability has become one of the biggest issues in India. Adulterated food has become very common in India. Food safety and standards authority of India (FSSAI) is all set to give a comprehensive view to food business operations. FSSAI is concerned about how to create an efficient identification system which will help the food supply chain to remove unsafe food to prevent customers from potentially hazardous food in market. Blockchain, the new technology behind bit coins, can be considered as one of the solutions to build food supply chain traceability instead of the traditional ones such as alphanumeric codes, Hologram, Barcode, Radio Frequency Identification (RFID) tags, and the geographical indication (GI) tag. This paper will focus on the concept of blockchain and its use in food supply chain management in India. The paper will also include the motive behind using blockchain technology instead of using any of the above traditional technologies for a robust & efficient food supply chain management and traceability system. The focus will be on tracking perishable food items such as meat, Fish, Chicken, Eggs, Fruits and vegetables.

Keywords— Blockchain, Food supply chain, traceability, RFID, Supply Chain