Development of Anti-counterfeit System for Product Identification

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Abstract: The global improvement of a product or innovation is typically accompanied with risk considerations like forging and duplication. Forging might have an impact on both the client's wellbeing and the company's reputation. These days, spotting phoney goods is the toughest challenge. It is essential to have a system in place that allows customers to verify all the information about the product they are purchasing in order to determine whether or not it is authentic. False items have a detrimental impact on the organisation and the welfare of the customers. As a result, manufacturers of goods are having a terrible time. Such fake and counterfeit items are something that India and other nations are battling against.

Blockchains can be used to locate real goods and spot imitations. Blockchain technology is a decentralised, distributed digital ledger that stores transactional data in blocks across a network of nodes. Blockchain technology is secure since no block can be altered or compromised because the data is immutable once it has been saved in the chain. Customers or users do not have to rely on other customers to vouch for the reliability and safety of the product. In our project, the system uses Blockchain technology to produce QR(QuickResponse)codes. In this innovation, trade records are stored in blocks. These squares' data storage is difficult to access or modify.Using a QR code scanner, which connects a product's QR code to Blockchain, you may spot a fake product. Because of this, the system can be used to store product information and specially generated unique codes as database blocks.It captures the user's unique code and compares it with records in the Blockchain database. If the code matches, the product is true and authentic, and all of the information about it can be displayed; if not, the product is fraudulent or counterfeit.

Keywords: Blockchain, Bogus, Counterfeit, blocks, QR code, genuine

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