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Abstract:
The immutable decentralised and fast nature of blockchain has given rise to numerous applications based on this technology. The integrity of its data is one of the primary features of blockchain technology. By utilising blockchain technology, the system becomes decentralised, enabling the consumer to independently check the accuracy of the data and the product. We suggest a decentralised Blockchain system to stop the fabrication of fake products so that both the supplier and the consumer may use it to trade real goods without having to supervise directly owned stores, which can significantly reduce the cost of product quality assurance. In this project, Quick Response (QR) codes offer a powerful method to tackle the practice of product counterfeiting thanks to new developments in wireless and mobile technologies. Counterfeit goods may be found using a QR code scanner, which connects the product's QR code to a Blockchain. Therefore, this technique might be used to construct blocks in the database using the product's unique codes and record the product's details. It gathers the user's individual code and runs it against records in the Blockchain database. The consumer will be informed if the code matches, or if the product is fake, in which case they will receive the message.