



INFORMATICS INSTITUTE OF TECHNOLOGY

In Collaboration with

UNIVERSITY OF WESTMINSTER

**AgrO - Ensuring Consumer Reliability in the Organic Food
Industry Using Blockchain Technology**

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Abstract

Nowadays, stores sell both organic and non-organic foods. Organic foods are widely recommended and appreciated by consumers. Many people are attempting to purchase organic items from stores. However, while purchasing organic foods, purchasers may have questions about whether they are truly organic, and they may encounter issues such as: How do we know they are organic foods or just labeled? Furthermore, we only know that organic goods are more expensive than non-organic meals. As a result, organic foods must be purchased at a high cost. When a customer buys organic food, they may be unsure whether the food is truly organic or simply branded as such. Am I correct?

The proposed solution of this problem is when the consumer by the foods in the shop he can scan the QR code which is on the packet. Then he can see the fully detailed description about the product from cultivation to harvesting. Specially this project target consumer ability to see the fertilizer which the farmer used when the farming. Also, the user can see the certificate. Which is issued by the agricultural officer. The proposed solution is based on blockchain technology.

The project of AgrO is a new system integrated with the Ethereum blockchain. Because of the data's integrity, the maintenance record's traceability becomes even more important.