getronics

Getronics Blockchain

Use case: Food chain safety for hospitality
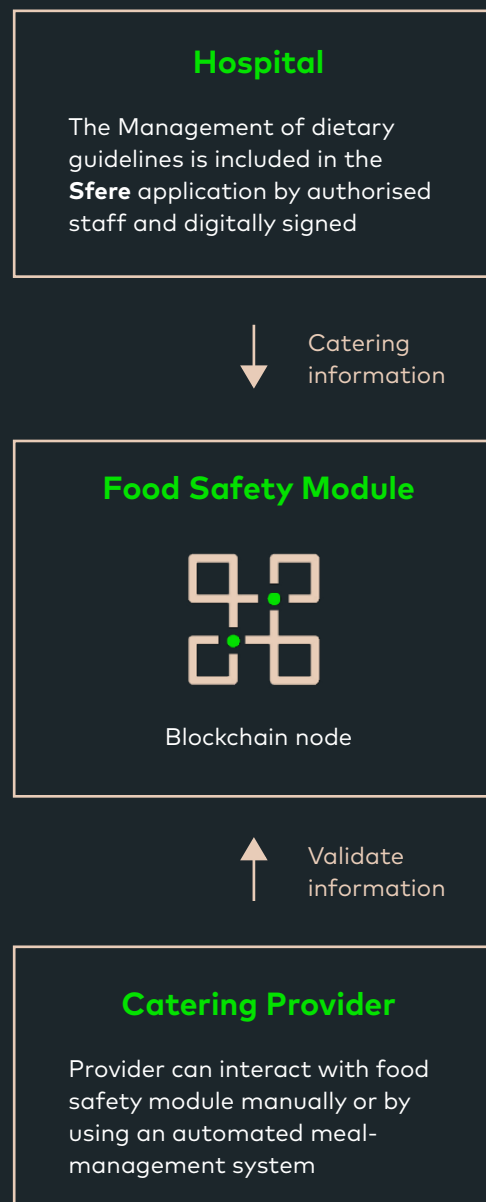
Introduction

Nowadays, people are much more sensitive to allergens and suffering from food intolerance. This is why it's vital to ensure food safety along the supply and distribution chain and food consumption.

By adopting blockchain in distribution processes, companies can certify the entire food distribution chain, improving process efficiencies, a safer supply chain, and reducing risks related to legal responsibilities.
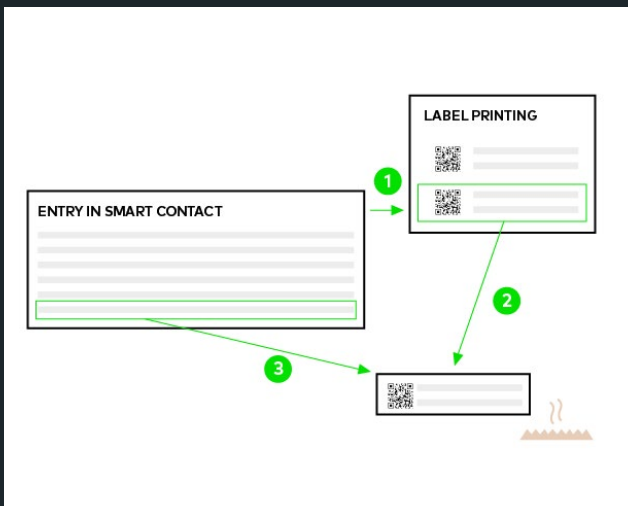
Getronics Solution

Getronics has implemented a blockchain-based module to certify food distribution, currently focused on the health sector.

We offer this module as part of Sfere, Getronics' Hospital Management Suite, which provides full coverage of the main business processes involved in healthcare provision.

Hospital

The Management of dietary guidelines is included in the **Sfere** application by authorised staff and digitally signed

↓ Catering information

Food Safety Module

Blockchain node

↑ Validate information

Catering Provider

Provider can interact with food safety module manually or by using an automated meal-management system

How does it work?

- Healthcare professionals establish guidelines for patients regarding allergies and food intolerance.
- This information is stored and signed in Sfere by a health professional.
- The guidelines are stored in a smart contract, digitally signed and verified by the hospital.
- The catering provider receives this information and marks it as verified. By this action, the provider agrees with these guidelines and commits to fulfilling them.
- The information is exported with the guidelines on labels, including a QR code in PDF format.

  The labels are attached to the tray with the patient's food.
- With the QR code, the patient can check that the information is fully certified in the smart contract, it has been agreed by the hospital, and then certified by the catering provider.

- Meals provider can interact with Food Safety Module by using several methods
  - Web access
  - API access
  - Direct contract access by installing a blockchain node
- By choosing blockchain, providers choose the safest method – as direct interaction with smart contracts offers full control over this process.

What's next?

The gradual adoption of this technology in the food supply chain will improve its efficiency and safety, providing high social and health benefits in the future.

Organisations will reduce costs by automating the whole process and avoiding costly disagreement issues between stakeholders, resulting in vital risks and lengthy legal processes.

A similar use case can easily be replicated across other verticals, including:

- Passenger transport
- Catering
- Hospitals
- Schools
- Centres for elderly people
- And more…

The possibilities are endless

Get in touch with our experts and learn how Getronics' blockchain can bring value to your business today.

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