

**XORDEX[HASHENTIC] —  
AN ENTERPRISE-GRADE  
PLATFORM FOR  
CREATING & MANAGING  
UNCLONABLE  
 NFC TAGS**

Invisible Tech. Visible Truth. Invisible Tech. Visi



● DEMO: PART 1

The One  
Solution for  
Any Product

Without further ado,  
let me show you how  
it works from the end-  
user's perspective.

Imagine I want to  
verify the authenticity  
of a product — for  
example, a bottle of  
wine.



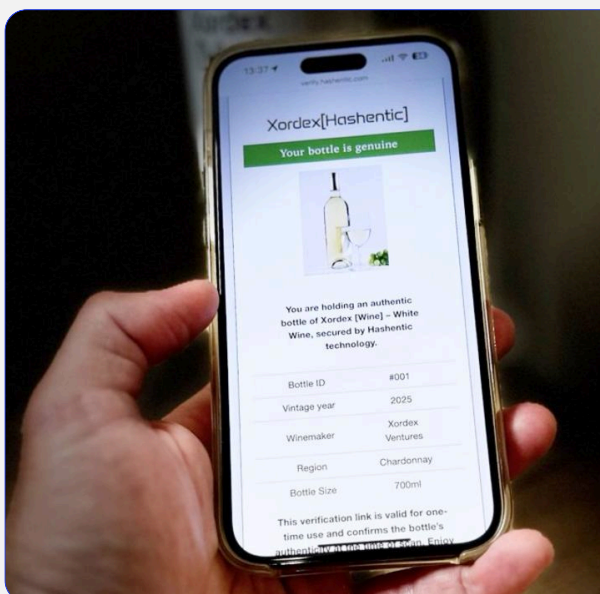


1

This bottle has a small NFC sticker. All I have to do is **scan the sticker** with my smartphone.

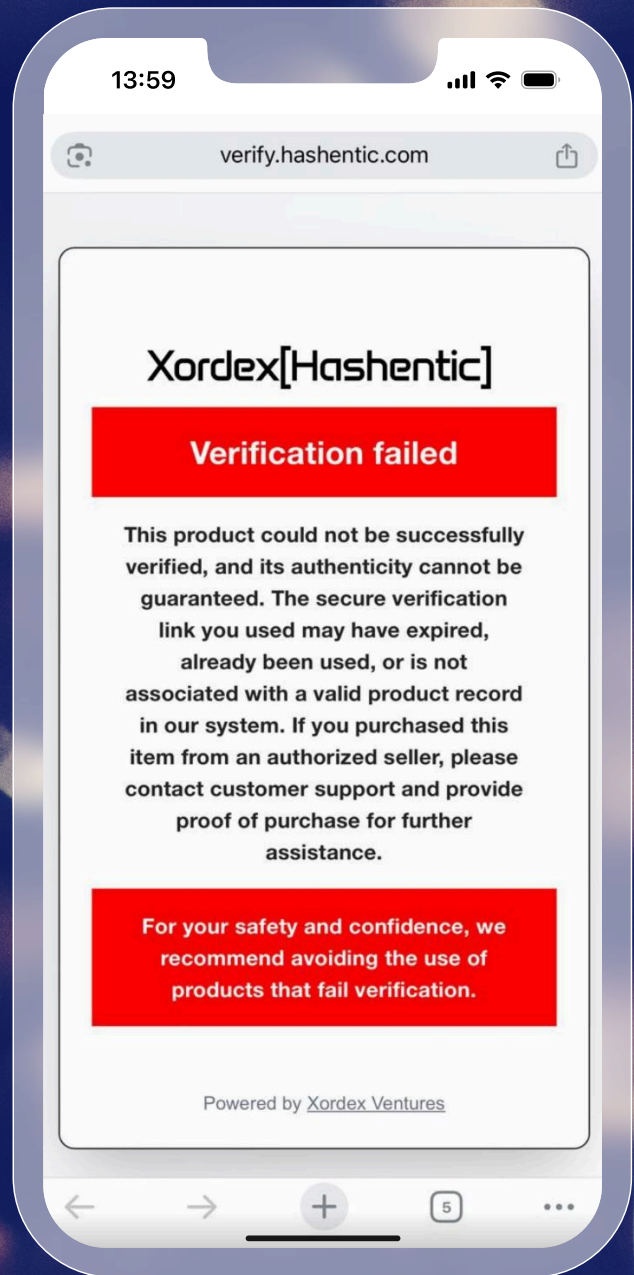
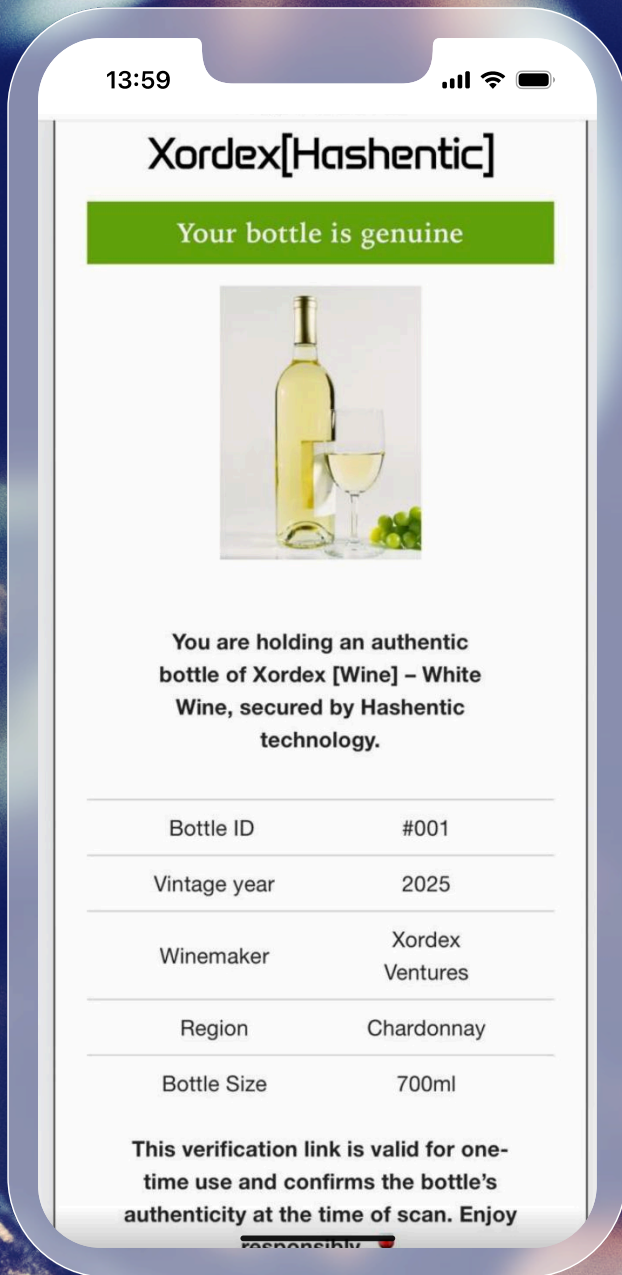
2

I don't need to install any third-party software; it works instantly through the phone's built-in browser.



3

A product **information page opens**, displaying all the relevant details about the item.



This verification page is accessible only via the physical tag and is valid for a single use.



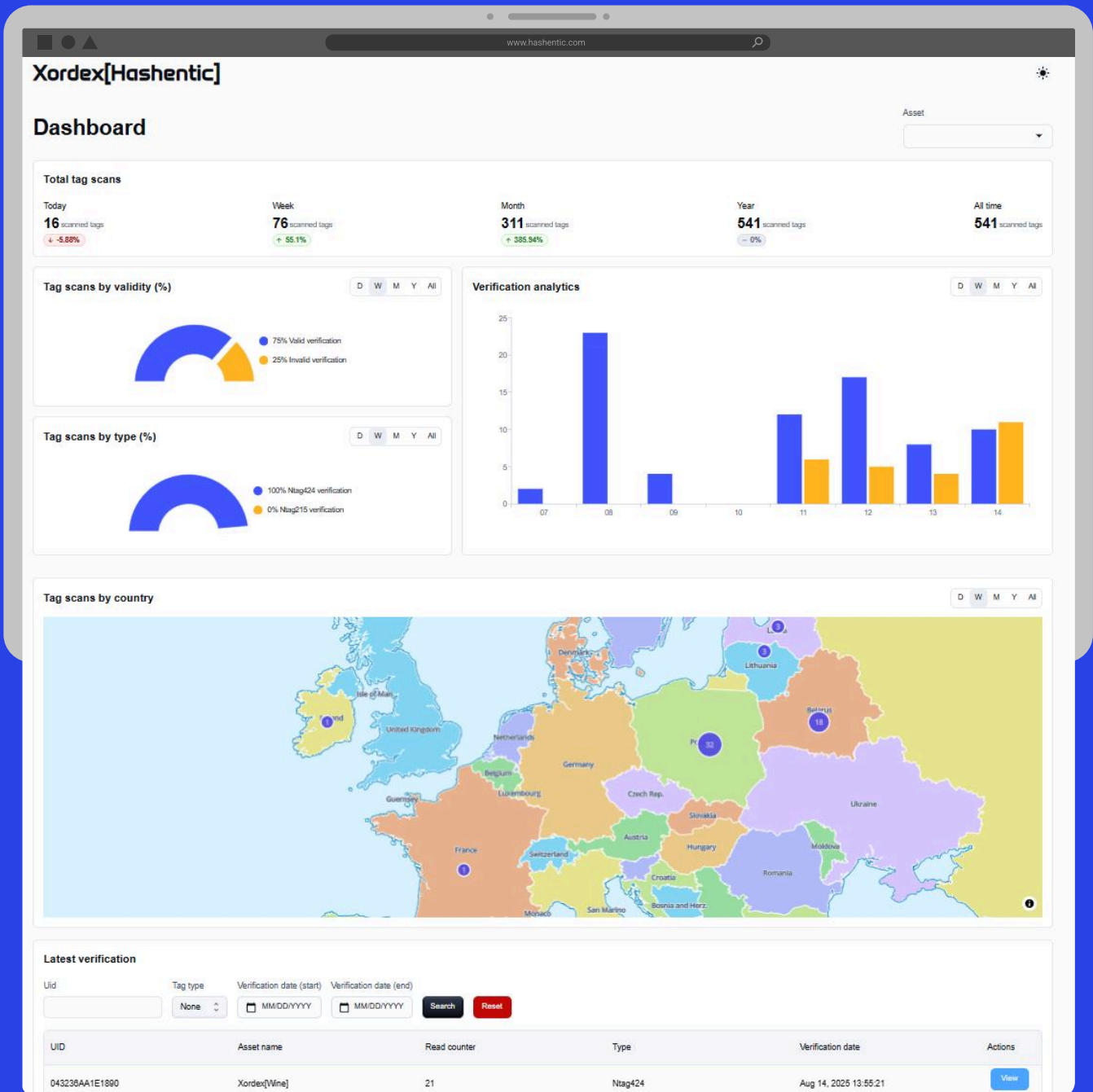
If I try to reuse the same URL, our system immediately alerts me that the product is not genuine.

This works because the page URL is generated directly by the NFC chip, which has built-in AES encryption. However, if I scan the tag again, it generates a fresh valid URL and shows the correct verification page — as it should.

## ● DEMO: PART 2

Behind the scenes we have an **admin tool** for managing assets and NFC tags. It includes an analytics dashboard that tracks every tag scan event.

Hashentic is built around the concept of data providers. By default, it ships with a **dedicated, private, on-prem blockchain** powered by the Xordex [Engine].



Each **product category** is represented as a **blockchain asset**, while each **product instance** corresponds to a **blockchain transaction**. This ensures data immutability and builds trust for the end user.

If you prefer not to use blockchain, you can **easily switch to a traditional database** or **integrate your own warehouse** via our REST API.

Each asset has dynamic custom fields and a custom template editor.

The screenshot displays the Xordex[Hashentic] Wine Overview interface. The page is titled "Xordex[Wine] Overview" and features several sections:

- Info:** Contains fields for ID (519d1eb4-71b8-4ab9-9b0c-0148e8e9df79), Name (Xordex[Wine]), Description (Test white wine), and Amount (99).
- Transfer:** Includes an Amount input field (set to 1), a Recipient dropdown menu, and a Send button.
- Tags:** Features a search bar with "Active" state, "Search" and "Reset" buttons, and a table of tags.
- Fields:** A table listing various properties like Bottle ID, Vintage year, Winemaker, Region, and Bottle Size, each with a Property name, Type, Protected status, and hidden status.
- Template:** An "Edit template" button and a preview area showing a wine bottle image and a message: "You are holding an authentic bottle of Xordex [Wine] – White Wine, secured by Hashentic technology." Below the message are two lines of dynamic content: "Bottle ID [bottleID]" and "Vintage year [vintageYear]".

Writing data to an NFC tag is straightforward:

1

Connect a basic smart card reader

2

Open our desktop application from the admin tool

3

Fill in the custom fields, attach the NFC tag, and press Write. That's it — the tag is ready for use.

## TAG DETAILS

Please fill tag details:

Asset: Xordex[Wine]

Type: Ntag424

Bottle ID: 002

Vintage year: 2025

Winemaker: Xordex

Region: Italy

Bottle Size: 1L

OK Cancel

## MANAGE TAGS

Welcome to Xordex[Hashentic]

To create a new NFC tag press the button below:

Add New Tag

Ntag424Xordex[Wine], 002, 2025, Xordex, Italy, 1L Write

Attach the tag to the APDU and press Write button

Write

The information I just entered is stored as a blockchain transaction, making it immutable and tamper-proof.

### Transaction Details

Transaction hash:	6wUrVXNhoKkc8gyjPHHEVsQQYerkEVgAtj9WqgXQzsiusjXt1A7a8P2HYtuvDwFU2vdWPFquJnCzCMH1jWfrvChxV3aS42
Status:	Success
Block:	2971
Date:	08/14/2025, 10:25 AM
From:	184JbphJcM77xL4ai4HzzFRqRzTWv3w8VX
To:	Black-HoLe
Amount:	1 Xordex[Wine]
Fee:	0 PKKI
Transaction Data:	{ "uid": "043236AA1E1890", "region": "Chardonnay", "bottleId": "#001", "winemaker": "Xordex Ventures", "bottleSize": "700ml", "vintageYear": "2025" }

THANK  
YOU FOR  
WATCHING,  
AND HAVE  
A GREAT  
DAY!

Contact us at [info@xordex.org](mailto:info@xordex.org)