

HashiRWA: Japan Agri-RWA Gateway with AI

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Overview

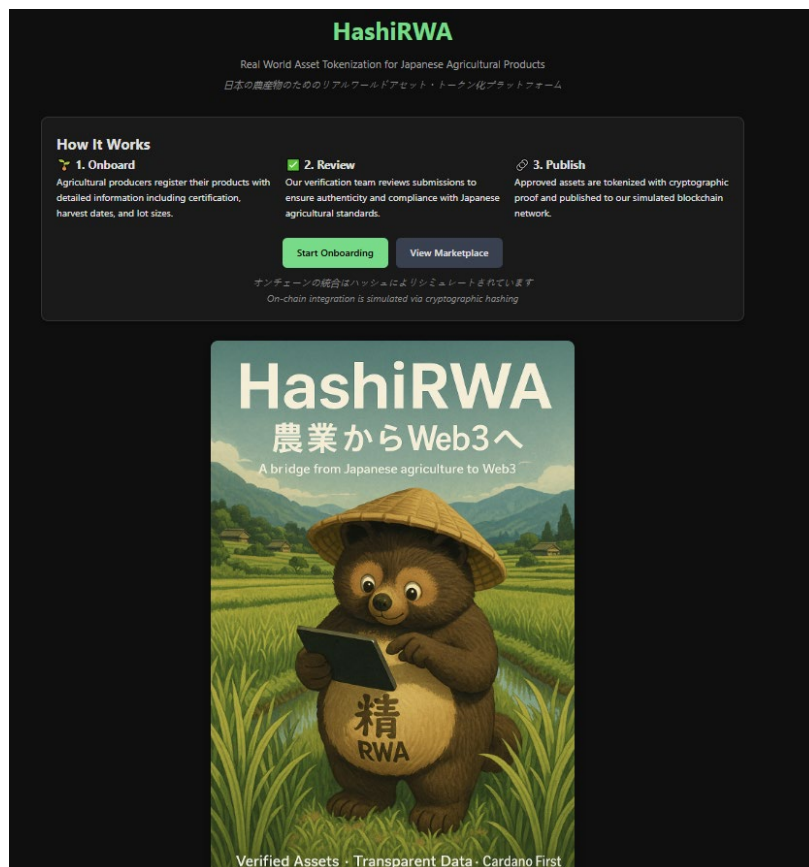
HashiRWA is a working prototype demonstrating how Japanese agricultural producers can onboard their products as real-world assets (RWA). The demo simulates the flow from producer onboarding → admin review → public marketplace → cryptographic proof of listing.

Key Features

- 🌱 Onboarding — Producers register with product, certification, harvest date, lot size.
- ✅ Admin Review — Submissions can be approved or rejected for compliance.
- 🛒 Marketplace — Approved products are listed publicly with details.
- 🔗 Proof of Listing — Each listing generates a SHA-256 hash + downloadable JSON metadata (simulated “on-chain”).

Screenshots (Visual Proof)

- Landing Page (HashiRWA title + how it works card)



- Onboarding Form (producer input fields)

Producer Onboarding

Register your agricultural products for tokenization

Producer Name *

Prefecture *

Select Prefecture

Product *

Select Product

Certification

Select Certification

Lot Size *

e.g., 1000kg, 500 units

Harvest Date *

dd/mm/yyyy

Contact Email

Wallet Address

0x...

Notes

Additional information about your product

Submit for Review

- Marketplace View (approved assets with proof link)

HomeOnboard Product

Agricultural Asset Marketplace

Verified and tokenized Japanese agricultural products

Shizuoka Green Tea Co.

Verified

Product: Green Tea

Prefectures: 静岡県

Certifications: JAS Organic

Lot Size: 500kg

Harvest: 2024-05-15

Tokenized: 2025-08-17 11:01

View Details

Aomori Apple Farmers Union

Verified

Product: Apple

Prefectures: 青森県

Certifications: JGAP

Lot Size: 1000kg

Harvest: 2024-10-20

Tokenized: 2025-08-17 11:01

View Details

Hokkaidō Rice Collective

Verified

Product: Rice

Prefectures: 北海道

Certifications: JA

Lot Size: 2000kg

Harvest: 2024-09-30

Tokenized: 2025-08-17 11:01

View Details

Tech Stack

Python + Flask (backend)

JSON for data persistence (local simulation)

Minimal CSS dark theme UI

Access

GitHub Repo (code + documentation): <https://github.com/fuguswarm/hashirwa-demo>

Disclaimer

This is a proof-of-concept demo. “On-chain” functionality is simulated via cryptographic hashing. A full blockchain deployment will be implemented in later phases.

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