

PermaVillage App – Whitepaper

Version 1.0 – May 2025

Executive Summary

PermaVillage is a mobile-first platform developed by Elsinor S.R.L., a purpose-driven technology company dedicated to building digital tools that empower regenerative communities and promote ecological resilience.

Our mission is to make permaculture more accessible, visible, and connected globally – through intuitive software that supports local initiatives, strengthens collaboration, and accelerates the transition toward sustainable living systems.

Problem Statement

Despite the growing interest in permaculture and regenerative practices, practitioners and communities often face challenges such as:

- Difficulty attracting volunteers, buyers, or collaborators
- Lack of integrated tools to manage activities, events, and community life
- Fragmentation of knowledge and practices

PermaVillage addresses these gaps by offering a comprehensive digital ecosystem tailored to the needs of modern permaculture projects and ecovillages.

Core Objectives

- Digitally empower regenerative communities and permaculturists
- Facilitate networking and collaboration
- Enable knowledge-sharing and participatory learning
- Promote alternative economic models such as bartering, hosting, and skill exchange
- Support sustainable tourism, education, and social inclusion

Key Features

- 1. Permaculture Project Profiles**
Showcase your initiative with a public page including photos, activities, vision, location, and contact tools.
 - 2. Interactive Map of Initiatives**
Discover permaculture sites, events, and projects worldwide – filter by type, region, and availability.
 - 3. Event & Workshop Calendar**
Create and manage community events, training, and sustainability workshops with custom notifications.
 - 4. Local Marketplace**
Exchange or sell locally-grown food, seeds, tools, and artisanal products – fully integrated with payment gateways.
 - 5. Volunteer & Hosting Platform**
Match with volunteers based on skills, availability, and shared values. Host guests for work exchanges, cultural immersion, or language learning.
 - 6. Cohousing & Communal Living Listings**
Promote shared living opportunities, cohabitation models, and regenerative housing spaces.
 - 7. Knowledge Hub & Community Forum**
Participate in thematic discussions, share best practices, and contribute to a living knowledge archive.
 - 8. Integrated Crowdfunding Tools**
Launch transparent campaigns to support specific needs (e.g. tools, farming and community activities).
 - 9. Education & School Programs**
Enable permaculture sites to be found by students or volunteers that want to be hosted through official internship programs, school-credit initiatives, or Erasmus-like exchanges.
 - 10. Shared Resources & Tool Lending**
Build a local circular economy by sharing equipment and tools with nearby projects.
-

Technology Stack

- **Frontend:** Next.js, TailwindCSS and React
- **Backend:** Node.js, Prisma ORM, PostgreSQL, Redis
- **Authentication:** NextAuth with OAuth 2.0 and role-based access control
- **Cloud Infrastructure:** MinIO for S3-compatible storage, CDN distribution, containerized deployment
- **Security:** End-to-end encryption, JWT, rate limiting, GDPR compliance

Roadmap

- Q1 2026: MVP launch in Europe, multilingual support, beta onboarding
 - Q2 2026: Marketplace release, volunteer matchmaking, crowdfunding modules
 - Future phases will be driven by the community itself.
-

Contact

Elsinor S.R.L.

Via Margifaraci 60, Palermo, Italy

Email: contact@elsinor.it

Web: <https://www.permavillage.app>