Lending and Borrowing: Detailed Design

Version: 1.0
Catalyst Project ID: 1200142
Milestone: Final Milestone (5)

Project Overview

The Cardano Yield Hub is a lending and borrowing aggregator that simplifies DeFi on Cardano by enabling users to:

- Compare lending/borrowing rates across multiple protocols
- Supply, borrow, and manage positions directly from one platform
- View and manage their portfolio across supported platforms

With this milestone, we are marking project completion. All planned features have been implemented, and the platform is live with support for multiple Cardano lending protocols.

Live app: **yield.ada.markets**

Final Milestone Achievements

✅ Protocol Integrations

- **Surf Lending** – Fully integrated, including supply, borrow, repay
- **Liqwid Finance** – Fully integrated, including supply, borrow, repay
- **Indigo Protocol** – Indexed in read-only mode (view positions and stats)
- **DEX Aggregator** – Integrated (optional add-on; not part of original scope)

✅ Functional Features Completed

- Aggregated token selection and lending market comparison
- Real-time protocol stats (APY, TVL, liquidity)
- Transaction modals for supply/borrow/repay using MeshJS
- Portfolio view: wallet-linked user positions
- Loan management: active loan data, health factors, and actions

✅ Technical Capabilities

- Protocol-specific services for Liqwid, Lenfi, Surf
- Modular backend API via Next.js (Node/TypeScript)
- Responsive frontend UI (Next.js + Tailwind)
- Secure wallet integration using CIP-30 + Mesh SDK

Demonstration Video

The final milestone is demonstrated in the following video:

▶️ **Watch the Final Milestone Video Demo**

⏱️ Timestamps:

- **0:52** – App Overview
- **2:30** – Protocol 1: Liqwid Finance
- **4:10** – Protocol 2: Surf Lending
- **5:28** – Managing User Positions
- **6:40** – Lending Opportunity Page
- **7:45** – Borrowing Opportunity Page
- **8:42** – DEX Aggregator Swap
- **9:01** – Upcoming Protocol: Fluid Tokens (Preview)

Final Notes

This close-out confirms that:

- All core milestones are met or exceeded
- The platform is live and functional with multi-protocol support
- Documentation and a working video walkthrough have been submitted

We thank Catalyst for supporting this initiative. The team is committed to maintaining and expanding the platform beyond this final milestone.