

LiveDrive

Your permanent, programmable, and performant cloud drive.

Wave 1 - Product Design
Link to Notion Page: [Notion Page](#)



LiveDrive

Problem Statement

The High-Level Problem:

The centralization of cloud storage leads to vendor lock-in, high egress fees, censorship risks, and a lack of verifiable data integrity for users.

The User's Pain Points:

For Web3 Natives: I want to store my files on decentralized storage, but the current tools are too technical, and retrieval is too slow for active use.

For Web2 Users: I'm worried about my privacy and data ownership with Big Tech, but I don't want to sacrifice the speed and convenience of Google Drive.

For Developers: I want to build an app that uses decentralized storage, but integrating directly with Filecoin providers is complex and time-consuming.

Why This Problem Matters Now:

The demand for data sovereignty is growing. Filecoin has solved permanent storage; Onchain Cloud services now make performant, user-friendly applications possible.

Relevance to Filecoin Onchain Cloud:

This problem is a perfect fit because it requires the exact stack provided: verifiable storage (PDP), fast retrieval (FilCDN), and a seamless payment model (Filecoin Pay), all accessible via a unified SDK (Synapse).

Solution & Value Proposition

Our Solution:

LiveDrive is a dApp that provides a familiar cloud drive interface abstracted on top of Filecoin's Onchain Cloud services, delivering a web2 experience with web3 guarantees.

Core Value Proposition:

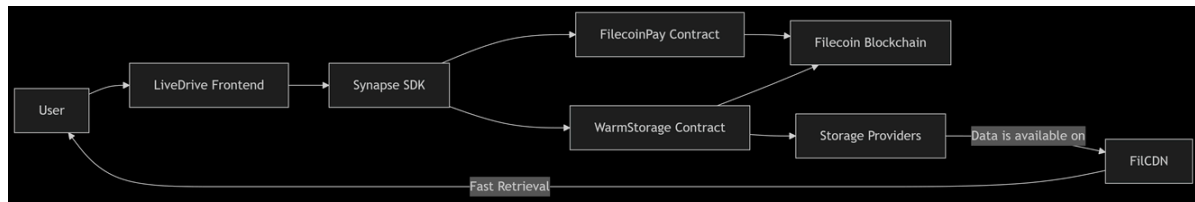
Never choose between performance and permanence again. LiveDrive gives you the instant access of hot storage with the verifiable security and decentralization of cold storage.

Key Features & Benefits:

- One-Click Upload & Management: Drag-and-drop simplicity (Ease of use).
- Instant Retrieval via FilCDN: Download files as fast as from any CDN (Performance).
- Cryptographic Proofs: On-chain verification of data integrity (Trust & Security).
- Streaming Payments: Simple monthly FIL subscription (Predictable pricing).
- Decentralization: Data stored across Filecoin network (Censorship-resistance & Ownership).

Technical Design & Architecture

System Architecture Diagram:



Detailed Workflows:

User Onboarding & Subscription Flow: Wallet connection, FIL stream approval.

File Upload Flow: 1. Select file 2. SDK prepare() 3. StorageService 4. Deal proposal 5. UI updates.

File Retrieval Flow: 1. User clicks download 2. Request from FilCDN 3. Fetch/cache 4. Download complete.

Deep Dive on Integration:

- SynapseSDK: Handles deal initiation and payment streams.
- Filecoin Warm Storage Service: Creates faster deals with PDP verification.
- Filecoin Pay: Streaming payments for recurring subscriptions.
- FilCDN: Ensures fast, reliable file retrieval.

Go-to-Market & Ambition

Target Audience: Crypto-natives first, later privacy-conscious Web2 users.

Business Model: Freemium (5GB free, premium at ~5 FIL/month).

Why This is a Business: Monetization is native with FilecoinPay, roadmap includes enterprise features.

Project Timeline & Next Steps

Wave 2 (MVP): Wallet connect, subscription, fileupload, FilCDN retrieval.

Wave 3 (Polish): UI/UX improvements, file previews, error handling.

Wave 4 (Final): Sharing, landing page, user testing.