Decentralized Cloud Storage Platform (DSP)

People and businesses often need affordable storage solutions, but many storage options are expensive and have privacy risks. At the same time, a lot of unused storage space is available on personal devices and servers, going to waste.

The goal is to build a **decentralized platform** where users can rent out their unused storage space to others at a lower cost. This platform should let users easily list their storage, create secure rental agreements, and handle safe, low-cost payments, all while keeping data private and protected.

Objective:

To create a decentralized platform used to rent out unused personal space for less then the original price.

Key Features:

➢ Decentralized File Storage: Users can store their data across multiple nodes (other users' devices).

➢ P2P Storage Network: Direct file transfers between users, eliminating reliance on a centralized server. 3. Incentive Mechanism (Token-based): A cryptocurrency token (native to the platform) is used to reward users who provide storage.

➢ Security (Data Encryption): Files are encrypted before being split into chunks and uploaded. Only the owner has the key to decrypt and access the files.

➢ Data Redundancy and Availability: Redundancy mechanisms (such as replication or erasure coding) to prevent data loss. Multiple copies of each file are stored on different nodes to ensure accessibility even if nodes go offline.

Tech Stack:

Frontend:

Languages/Frameworks: HTML, CSS, JavaScript, ReactJS.

Backend:

Blockchain Platform: Ethereum / polygon.

Smart Contracts: Reward Contract.

Database: IPFS, noSQL

ROADMAP:

28th OCT : START

28th – 31st OCT : Brainstrom

1st NOV – 25th NOV : BUILD

25th – 28th OCT : Make it work somehow(Debuging-Stage)

29th NOV : END

-2 will work on frontend!!

-2 will work on backend!!

GITHUB :- https://github.com/Kartikjarali010/Lost_Crew

Presented by :

Lost_Crew