

Storage

Logic

UX

Applications

Design Patterns

Blockchain Basic Patterns

Rollbit

Polymarket

NBA Topshots

Rarible

Blur

CryptoPunks Marketplace

pump.fun

MagicEden

Stablecoins

Sushiswap

Pancakeswap

Dodo

Warpcast

Farcaster

OpenSea

Ethereum Name Service (ENS)

Login using E-Mail/Password

User connects own wallet address

User gets a proxy wallet

Users uses own wallet software

Hybrid Login with own wallet or E-Mail

Interoperability via public interface

Use Smart-Contract for data storage

Offchain buy and onchain mint of NFTs

Save metadata in the Smart Contract

Save core data with hash value

Optionale royalties

Enforced royalties

Save core data centralized with hash

Tokenization of real world assets (RWAs)

Using a "Verifiable Random Function (VRF)"

Hybrid data storage

Use public block explorer

Multiple independent or custom UIs and clients possible

Use a public algorithm for random number generation ("Provably Fair")

Use a private algorithm for random number generation

Publicly document changes to a data record

Zero-Knowledge-Proof

Prove correct execution of offchain logic

Offer a public interface for using and extending the application

Enable an overview of digital values independent from an app developer

Enable users to independently check the integrity of an information

Enable the management of digital values without interference of the creator

Enable the user to manage their own data

Enforce deterministic and correct code execution

Allow users certain degrees of freedom within the processes

Prove deterministic and correct code execution

Trustless operation of an application

Enable transfer of digital values

Prove the integrity of a data record