
Concept Summary

MintStations are physical or digital touchpoints where users can mint NFTs, claim tokens, or trigger smart contract logic — based on presence, proof, or interaction. They act like QR-enabled, programmable portals embedded in space, culture, or events.

> Picture it: A mintstation on a lamppost. You scan it. You mint a memory. You unlock a quest. Boom — reality just went on-chain.

Core Components

Component	Description
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QR/Scanner Interface	Entry point for interaction — physical sticker, screen, or NFC
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Location Proof	Optional GPS/PoP confirmation for location-specific minting
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Smart Contract Trigger	Mints rNFT, drops tokens, verifies attendance, or starts a quest
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rNFT Output	The minted result: access pass, voucher, badge, collectible
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Metadata	Includes timestamp, coordinates, SDG tie-in, event ID, etc.
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How It Works

1. Deploy Station

Print QR code, install touch terminal, or embed NFC chip

Can be static (permanent) or event-based (temporary)

2. User Interaction

User scans via wallet app, Drop.me link, or browser

Optional: confirm location with PoP or GPS

3. Mint Triggers

Automatically generates an rNFT or GeoNFT

rNFT may include claim logic, unlockable quests, identity proof

4. Smart Layer

Contract stores who minted, when, and where

Can airdrop POSI points, open DAO access, or issue rewards

5. Station Analytics

See usage heatmap, wallet reach, return rates, SDG alignment

Station Types

Type	Function / Example
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Urban	Street pole w/ SDG graffiti & mintstation (Berlin pilot)
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Retail	Shopfront: scan to unlock local NFT voucher
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Event	Conference: scan to check in & claim rNFT badge
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Museum	Exhibit station: mint location-based POAP
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QR Poster	Public ad or flyer triggers Drop.me quest via scan
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Mobile	Temporary pop-ups, geo-hunt waypoints, bikes, moving carts
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Technical Stack

QR + Frontend: Simple scan redirects to Web3-enabled frontend (e.g., mint.web3map.ai/station/123)

Smart Contract: Mints NFT, writes event data, or triggers logic

PoP/GPS Verification: Optional ZK or mobile GPS check

IPFS/Ceramic: Storage for visual/media metadata

Drop.me Integration: Mission delivery, inbox link, airdrop follow-up

Use Cases

Context	Use Case
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Urban Zones	Activate street-level participation, reward local exploration
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Education	Mint certificate for attending session/workshop
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Tourism	GeoNFT memory of landmark visit with SDG map badge
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Retail	NFT-based discount vouchers or affiliate rewards
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Civic Action	Mint proof of survey, protest, clean-up participation
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Gamified AR	Treasure hunt: find mintstations, collect all 17 SDG tokens
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Power Features

 Token-Gated Output: Only allow mint if you hold an rNFT or GeoNFT

 Time-Based Logic: Only active on certain days/times (e.g., night tour)

 Dynamic Drop: Based on user profile (Drop.me AI = smart personalization)

 Recyclable NFT System: Mints rNFTs that evolve or reset based on future scans

 KYC-Free Participation: No wallet needed — temp QR-based minting possible

Linked Systems

Protocol	How It Connects
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rNFTs	Output of mintstations — every scan creates dynamic rNFT
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GeoNFTs	Mintstation can trigger mints tied to physical places
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Drop.me	Sends follow-up quests, messages, or affiliate links
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GeoDAOs	Used to gather participation data, votes, or spatial triggers
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POSI System	Awards contribution score based on scan, task, mission completed
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EXIT+	Mintstation usage data justifies public goods investment claims
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Why MintStations Matter

Physical-world entry point into the ecosystem

Tokenizes human presence, memories, and movement

Deployable by anyone — from artists to governments

Turns any wall, streetlamp, or poster into a smart contract gateway