

Feature Spec: Volunteer Media Archive & Long-Term Storage

1. Overview

Build a system where volunteers can upload media (images, videos, text, documents) either individually or as a ZIP, have them auto-reviewed by AI, then human-validated via upvotes/flags before being archived for long-term storage (Glacier + optional IPFS). Archived items are searchable, downloadable, and shareable to any registered user.

2. User Roles

Volunteer: Upload, edit own metadata, upvote, flag.

Admin: All volunteer actions + approve/reject blocked items.

Authenticated User: Search, view, download, share archived items.

3. Supported File Types

Images: jpg, jpeg, png, webp

Videos: mp4, mov, mkv

Documents: pdf, docx, txt, md

Bulk: zip

4. Upload Flow

Drag-and-drop interface.

Batch context: title, description, tags.

ZIP unpacking supported.

Each file becomes an Item with status=pending_ai_review.

5. AI Review & Metadata Generation

AI scans for copyright, security risks, policy violations.

Duplicate detection via checksum.

AI generates title, description, tags.

Status moves to awaiting_uploader_review.

6. Uploader Review & Editing

Uploader edits title, description, tags.

Submit for community review → status=pending_community_review.

7. Community Upvoting & Flagging

3 upvotes → approved_for_archive.

3 flags → blocked_community → admin review.

8. Admin Review

Admin approves → approved_for_archive.

Admin rejects → rejected.

9. Archival & Storage

Move to Glacier.

Optional add to IPFS + store CID.

Compute checksum.

Status=archived.

10. Archived Content Access

Authenticated users can search, download, share archived files.

11. Status Lifecycle Summary

pending_ai_review → awaiting_uploader_review → pending_community_review → approved_for_archive → archived.

blocked_ai/blocked_community → admin decision → approved_for_archive or rejected.