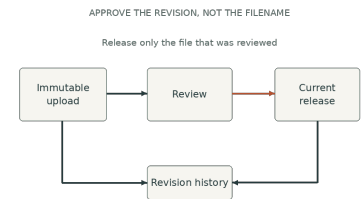


FULL-STACK APPLICATIONS

Drawing release register

Make the approved drawing revision clear before it reaches the shop floor.



PROPOSED ARCHITECTURE

Document workflow brief; release rules to agree

THE PROBLEM

An engineering team shares PDFs through folders and email. Similar filenames make it difficult to tell which revision was approved and why it changed. This application keeps immutable uploads, review decisions, and a current-release pointer for each drawing.

SCOPE

- Use a TypeScript web application, PostgreSQL metadata, and private object storage.
- Hash uploaded PDFs and bind approvals to an immutable revision, not a mutable filename.
- Provide draft review, approval history, superseded revisions, and permission-checked downloads.

PLANNED DELIVERABLES

- Document application, revision API, and storage adapter
- Release-state, concurrent-review, and permission tests
- Local setup, seeded examples, and a backup/export procedure

CONSTRAINTS

Roles

Author, reviewer, and read-only consumer

Release

Only a verified upload and its approved revision can be released

History

Revisions are retained; corrections create a new revision

Scope

PDF documents and metadata; no CAD parsing or design approval automation

VERIFICATION PLAN

Stale approval

Upload a new revision during review; the old approval cannot release it.

Partial failure

Fail an upload or database write; no incomplete revision becomes current.

Authorization

A reader cannot approve, replace, or access another restricted drawing.

NEXT STEP

Agree on drawing identifiers, review roles, and the release state transitions.

The register records reviewers' decisions. Reviewers remain responsible for the drawing content.