Design Authority Replication Protocol v1.0

Organization: Agile AI University

Status: LOCKED

Effective Date: 24 Feb 2026

Applies To: All Public Hosting Surfaces

Authority Level: Governance — Architectural

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1. Purpose

This protocol defines how the Institutional Design Authority layer is maintained, replicated, and governed across Firebase multi-hosting surfaces.

It ensures:

- Architectural stability

- Deterministic UI behavior

- Institutional consistency

- Controlled propagation of design changes

- Protection against cross-surface drift

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2. Architectural Context

Due to Firebase multi-hosting isolation:

- Each hosting target (public-site, public-certs, public-portal, etc.) must be fully self-contained.

- A hosting surface cannot reference files outside its own public root.

Therefore:

- Root-level `shared/design-authority/` is NOT runtime-authoritative.

- Each surface must contain its own runtime copy of the design authority layer.

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3. Authority Model

3.1 Development Authority (MASTER)

`/shared/design-authority/`

All structural, styling, and navigation updates must originate here.

3.2 Runtime Authority (Surface Copies)

Each public surface must contain:

`/public-*/shared/design-authority/`

These copies are runtime-authoritative for their hosting target.

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4. Replication Protocol

Step 1 — Modify Master

Step 2 — Intentional Replication

Step 3 — Commit Discipline

Step 4 — Surface-Specific Deployment

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5. Drift Prevention Rule

Editing a surface-level copy directly is prohibited.

Master must always be updated first.

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6. Structural Protection Rules

Protected:

- Header DOM structure

- Navigation logic

- Data-surface architecture

- Data-path active-state detection

- Theme toggle structure

- Mobile navigation behavior

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7. Versioning Discipline

Each design-authority file must include:

- Governance Baseline

- Current Version

- Status

- Scope

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8. Current Active Model

/shared/design-authority (MASTER)

/public-site/shared/design-authority

/public-certs/shared/design-authority

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9. Governance Status

ACTIVE · LOCKED · Architecturally Binding

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