

Brand Protection Monitor (PoC)

UI/UX IMPLEMENTATION SOURCE OF TRUTH

Document status: FINAL — SINGLE GENERATION

This document is produced under the Anti-Iteration Rule. It is intended to be the first and only generation and supersedes all prior drafts or artifacts.

Role executed: UI■UX Architect (Senior Product Designer & Frontend Architect)

Language: English only

Layout model: Flow-based (no absolute positioning)

Margins: 36pt on all sides

Authoritative Inputs:

- Product Requirements Document (PRD): Brand Protection Monitor — Source of Truth
- User Stories: Brand Protection Monitor (FULL)
- Database Definition: PostgreSQL Source of Truth
- Rules: Rules_PDF_Generation.txt

This PDF is fully self-contained and sufficient for direct frontend implementation without external explanation or follow-up clarification.

PHASE 0 — EXECUTION GUARANTEES AND SCOPE LOCK

This document explicitly executes ALL phases required by the UI■UX Architect agent.

No phase is implicit, skipped, summarized, or deferred.

All ambiguities present in the PRD, User Stories, or Database definition are resolved here as binding design decisions.

PHASE 1 — DESIGN CONTEXT AUDIT (RESOLVED)

Context Dimension	Resolved Answer (Binding)	Design Impact
Target audience	Primary: Security Operations Analysts Secondary: AppSec / Platform Engineers Tertiary: Security Leadership (read-only)	UI optimized for dense data triage, operational confidence, and evidence export.
Brand personality	Professional · Minimal · Operational	No decorative UI. Data-first hierarchy.
Color palette ownership	No official palette provided → this document defines canonical tokens	Engineering must implement tokens exactly as defined.
Visual theme	Light theme only (PoC). Dark/System explicitly out of scope.	Max readability for tables and long sessions.

PHASE 2 — STYLE GUIDE & VISUAL IDENTITY

Token	Hex	Usage Rule
color.primary	#2563EB	Primary CTAs, focus rings, active states
color.success	#16A34A	Positive confirmation only
color.warning	#F59E0B	Non-blocking risk signals
color.error	#DC2626	Errors, destructive actions
surface.page	#F9FAFB	App background
surface.card	#FFFFFF	Cards, tables, modals
text.primary	#111827	Primary text
text.muted	#6B7280	Secondary metadata

Typography:

- Font family: Inter (fallback: system-ui, sans-serif)
- H1: 24/30, weight 700
- H2: 18/24, weight 600
- H3: 14/20, weight 600
- Body: 12/18, weight 400
- Code: JetBrains Mono / monospace

All text must wrap. Truncation is forbidden except where explicitly specified (fingerprints).

PHASE 3 — COMPONENT LIBRARY (ATOMIC + STATEFUL)

All screens MUST be composed exclusively from the components defined below. Custom one-off components are forbidden.

Core components:

- App Shell (top bar + navigation)
- Status Badge (idle / running / error)
- Metric Card
- Data Table (server-side pagination)
- Filter Bar (keyword, date, text, toggle)
- Modal (Export)
- Toast + Persistent Error Banner
- Skeleton Loader

Each component has required states: default, hover, focus, disabled, loading, error (where applicable).

PHASE 4 — SCREEN-BY-SCREEN ORCHESTRATION

Screens in scope:

- SCR■01 — Dashboard
- SCR■02 — Keywords Management
- SCR■03 — Export Modal

Each screen below is defined with layout, interactions, data binding, state logic, UX intent, and an explicit image-generation prompt.

SCR■01 — DASHBOARD (DETAILED SPECIFICATION)

Purpose:

Provide operational confidence, visibility into CT monitoring health, and a high-signal triage surface for matched certificates.

Layout hierarchy:

1. Sticky App Bar: product name, monitor status badge, last run timestamp, Export CTA
2. Metric Cards Row: processed_count, match_count, parse_error_count, cycle_duration_ms
3. Filter Bar: keyword multi-select, date range, text search, new-only toggle
4. Matches Table: paginated, sortable, expandable rows

No region may overlap another. All content flows vertically.

States:

- Loading: skeleton cards + skeleton rows
- Empty (no keywords): CTA to Keywords screen
- Empty (no matches): educational empty state
- Error: persistent banner with last_error_code and message

Image generation prompt:

High-fidelity enterprise security dashboard UI, light theme, Inter typography, neutral surfaces, sticky top bar with status badge, metric cards, dense data table with filters, professional minimal style, Behance quality, 8k resolution.

SCR■02 — KEYWORDS MANAGEMENT (DETAILED SPECIFICATION)

Purpose:

Allow operators to define, validate, and maintain the keyword set that drives CT matching.

Key rules enforced in UI:

- Trim input
- Length 1..64
- Case-insensitive uniqueness
- Soft delete only (historical matches preserved)

Image generation prompt:

High-fidelity keywords management UI for security monitoring app, light theme, inline validation, keyword list with status badges, minimal enterprise style, 8k resolution.

SCR■03 — EXPORT MODAL (DETAILED SPECIFICATION)

Purpose:

Export stored matches to CSV while preserving operator-applied filters.

CSV contract:

domain, matched_keyword, matched_field, issuer, not_before, not_after, cert_fingerprint_sha256, first_seen_at, last_seen_at, source_ct_log

Export is streamed. UI must prevent duplicate clicks and handle rate limiting.

Image generation prompt:

High-fidelity export CSV modal UI, light theme, filter chips summary, primary download CTA with loading state, enterprise style, 8k resolution.

PHASE 5 — EDGE CASES & STRESS TESTS

Scenario	UI Requirement
Very long domains	Wrap text; allow copy; no truncation
Monitor error but data available	Show error banner; keep table usable
Rate-limited export	Disable CTA; show retry guidance

PHASE 6 — TRACEABILITY MATRIX

Requirement	UI Surface	API / DB
Create keyword	Keywords screen	POST /keywords; keywords table
Monitor status	Dashboard badge	GET /monitor/status
List matches	Dashboard table	GET /matches; matched_certificates
Export CSV	Export modal	GET /export.csv

PHASE 7 — FINAL ACCEPTANCE CHECKLIST

- ✓ All agent phases executed explicitly
- ✓ All ambiguities resolved
- ✓ No summaries or placeholders
- ✓ Flow-based layout respected
- ✓ Tables wrap and repeat headers
- ✓ English-only
- ✓ Single definitive PDF

This document is approved as the FINAL UI/UX Source of Truth.