

# Obsidian Shield Design System

## Tokenization App Interface Template

BlackW3B | Obsidian Matrix Noir Aesthetic

## Design Philosophy

**Obsidian Shield** embodies the convergence of financial security and cyberpunk aesthetics. The design language fuses **terminal-style precision** with **gold-backed trust**, creating an interface that communicates both **technological sophistication** and **tangible value**. Every element reinforces the core promise: serialized gold verification through daily zero-knowledge proofs.

The aesthetic draws from three pillars:

- Matrix Noir** - Red binary cascades, terminal grids, monospace precision
- Gold Standard** - Metallic gold accents representing physical Goldback backing
- Shield Security** - Angular geometries, sharp corners, fortress-like UI elements

## Color System

### Primary Palette

- Obsidian Black:** #0a0a0a - Primary background, creates infinite depth
- Matrix Red:** #ff0000 / #cc0000 - Binary code, warning states, error alerts
- Sovereign Gold:** #d4af37 / #ffd700 - Primary CTAs, verified badges, value indicators
- Terminal Green:** #00ff00 / #00cc00 - Success states, verification checkmarks

### Secondary Palette

- Vault Gray:** #1a1a1a - Secondary backgrounds, card surfaces
- Circuit Gold:** #b8860b - Borders, dividers, inactive states
- Ghost White:** #f5f5f5 - Primary text, headings
- Proof White:** #ffffff - High-emphasis text, critical information

### Semantic Colors

- Success:** #00ff00 (Terminal Green) - Verified proofs, completed transactions

- **Warning:** #ffaa00 (Amber) - Pending states, confirmations needed
  - **Error:** #ff0000 (Matrix Red) - Failed verifications, critical alerts
  - **Info:** #4a9eff (Electric Blue) - Informational messages, tooltips
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## Typography

### Font Families

**Headings & Technical Elements:** Orbitron (Google Fonts)

- Weight: 700 (Bold), 900 (Black)
- Usage: App titles, section headers, CTAs, technical labels
- Rationale: Sharp, geometric, cyberpunk aesthetic

**Body & Interface:** Inter (Google Fonts)

- Weight: 400 (Regular), 500 (Medium), 600 (Semi-Bold)
- Usage: Paragraphs, descriptions, form labels, UI text
- Rationale: Exceptional readability, professional fintech standard

**Monospace/Technical:** JetBrains Mono or Courier New

- Weight: 400 (Regular), 700 (Bold)
- Usage: Serial numbers, wallet addresses, proof hashes, code snippets
- Rationale: Terminal authenticity, precise character alignment

### Type Scale (Mobile)

- **Display:** 32px / 2rem - Onboarding titles, hero text
- **H1:** 24px / 1.5rem - Screen titles
- **H2:** 20px / 1.25rem - Section headers
- **H3:** 18px / 1.125rem - Card titles
- **Body Large:** 16px / 1rem - Primary content
- **Body:** 14px / 0.875rem - Standard text
- **Caption:** 12px / 0.75rem - Timestamps, metadata
- **Micro:** 10px / 0.625rem - Legal text, fine print

### Text Hierarchy Rules

- **High Emphasis:** White (#ffffff), 600+ weight - Critical actions, values
  - **Medium Emphasis:** Ghost White (#f5f5f5), 400-500 weight - Standard content
  - **Low Emphasis:** 60% opacity white - Supporting text, placeholders
  - **Gold Emphasis:** Sovereign Gold (#d4af37) - Value indicators, verified states
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## Component Library

### Buttons

#### Primary (Gold CTA)

- Background: `linear-gradient(135deg, #d4af37, #ffd700)`
- Text: `#000000` (Black), Orbitron Bold
- Border: None
- Shadow: `0 4px 12px rgba(212, 175, 55, 0.3)`
- States: Hover (brightness 110%), Active (scale 0.98)

#### Secondary (Outline)

- Background: Transparent
- Text: `#ffffff`, Orbitron Semi-Bold
- Border: `2px solid #d4af37`
- States: Hover (background `rgba(212, 175, 55, 0.1)`)

#### Tertiary (Text Link)

- Background: Transparent
- Text: `#d4af37`, Inter Medium
- Underline: On hover only

#### Danger (Destructive)

- Background: `#ff0000`
- Text: `#ffffff`, Orbitron Bold
- Border: None

### Cards

#### Standard Card

- Background: `#1a1a1a`

- Border: 1px solid #d4af37
- Border Radius: 0px (sharp corners)
- Padding: 16px
- Shadow: 0 2px 8px rgba(0, 0, 0, 0.4)

### Goldback Asset Card

- Background: #1a1a1a
- Border: 2px solid #d4af37
- Contains: Goldback image, serial number (monospace), verified badge, timestamp
- Layout: Image top, serial center, metadata bottom

### Verification Status Card

- Background: #1a1a1a with subtle grid pattern
- Border: 2px solid #d4af37 with clipped corners
- Contains: Proof timestamp, serial count, vault status, countdown timer
- Special: Gold glow effect on verified state

## Inputs

### Text Input

- Background: rgba(26, 26, 26, 0.8)
- Border: 1px solid #d4af37
- Text: #ffffff, Inter Regular
- Placeholder: rgba(255, 255, 255, 0.4)
- Focus: Border 2px solid #ffd700, shadow 0 0 8px rgba(212, 175, 55, 0.5)

### Amount Input (Large)

- Background: Transparent
- Border: 2px solid #d4af37
- Text: 32px, Orbitron Bold, #ffd700
- Centered alignment

## Badges

### Verified Badge

- Background: #00ff00

- Icon: Shield checkmark
- Text: "Verified", Inter Semi-Bold, #000000
- Size: 24px × 24px icon + text

## Status Badges

- Pending: #ffaa00 background, "Pending" text
- Failed: #ff0000 background, "Failed" text
- Secured: #00ff00 background, "Secured" text

## Navigation

### Bottom Tab Bar (if applicable)

- Background: #0a0a0a
- Border Top: 1px solid #d4af37
- Icons: 24px, gold when active, 60% white when inactive
- Labels: 10px, Inter Medium

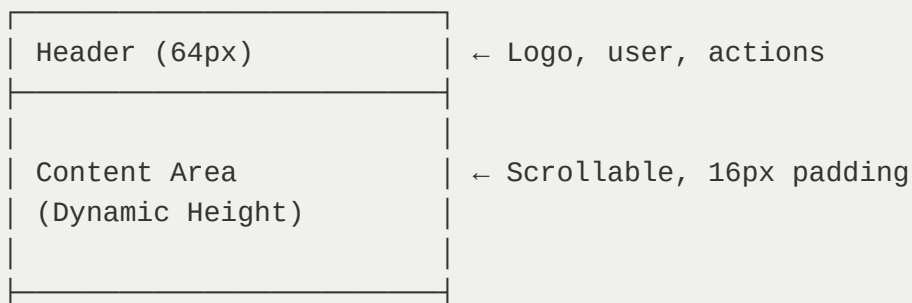
### Header

- Background: #0a0a0a or transparent
- Logo: Obsidian Shield mark + wordmark
- Actions: User avatar, settings icon (gold)
- Height: 64px

## Layout Patterns

### Screen Structure

Plain Text



## Grid System

- **Mobile:** 4-column grid, 16px gutters
- **Tablet:** 8-column grid, 20px gutters
- **Desktop:** 12-column grid, 24px gutters

## Spacing Scale

- **4px:** Micro spacing (icon-text gaps)
- **8px:** Small spacing (within components)
- **16px:** Standard spacing (between elements)
- **24px:** Medium spacing (section padding)
- **32px:** Large spacing (major sections)
- **48px:** XL spacing (screen top/bottom)

## Iconography

### Style Guidelines

- **Line Weight:** 2px strokes
- **Style:** Outlined, sharp corners
- **Size:** 24px standard, 32px large, 16px small
- **Color:** Gold (#d4af37) for active, 60% white for inactive

### Key Icons

- **Shield:** Verification, security, protection
- **Lock:** Privacy, encryption, secured states
- **Checkmark:** Verified, completed, success
- **Alert Triangle:** Warnings, important notices
- **Binary/Matrix:** Background pattern element
- **Circuit Board:** Technical/system elements
- **Goldback Note:** Asset representation

- **QR Code:** Wallet addresses, sharing
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## Motion & Animation

### Principles

- **Purposeful:** Every animation communicates state or guides attention
- **Snappy:** Fast transitions (150-250ms) maintain cyberpunk energy
- **Subtle:** Avoid excessive motion that distracts from security focus

### Animation Library

#### Button Press

- Duration: 150ms
- Easing: `ease-out`
- Transform: `scale(0.98)`

#### Card Entrance

- Duration: 250ms
- Easing: `cubic-bezier(0.4, 0, 0.2, 1)`
- Transform: `translateY(20px)` → `translateY(0)`, opacity 0 → 1

#### Verification Success

- Duration: 400ms
- Effect: Shield icon scales 1 → 1.2 → 1, gold glow pulse
- Sound: Optional success chime

#### Matrix Code Flow

- Duration: Continuous
- Effect: Red binary characters cascade down background
- Speed: Slow (3-5s per screen height)
- Opacity: 10-20% to avoid distraction

#### Loading States

- Spinner: Gold circular spinner, 2px stroke
  - Skeleton: Animated gradient shimmer on placeholder cards
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# Background Patterns

## Matrix Binary Cascade

- **Characters:** "0" and "1" in monospace font
- **Color:** #ff0000 at 15% opacity
- **Animation:** Vertical scroll, staggered columns
- **Usage:** Onboarding, verification screens, empty states

## Terminal Grid

- **Pattern:** 1px grid lines
- **Color:** #d4af37 at 5% opacity
- **Usage:** Backgrounds for technical screens, redemption flow

## Circuit Board Texture

- **Pattern:** Subtle circuit traces
  - **Color:** #d4af37 at 3% opacity
  - **Usage:** Card backgrounds, header overlays
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# Screen Templates

## 1. Dashboard (Home)

**Purpose:** Overview of holdings, verification status, quick actions

**Layout:**

- Header with logo and user avatar
- Hero card: Total holdings (large gold text), verification status badge
- Asset grid: 2-column Goldback cards with serial numbers
- Action bar: "Buy More" (gold), "Transfer", "Redeem" buttons
- Background: Matrix binary cascade

**Key Elements:**

- Goldback asset cards showing serial numbers in monospace
- "Last Proof: X hours ago" timestamps



- Verified badges with green checkmarks

## 2. ZK Proof Verification

**Purpose:** Display daily proof status and technical details

**Layout:**

- Full-screen centered design
- Large gold shield icon with glow effect
- "Daily Proof Verified" title
- Verification details card (proof time, serial count, vault status)
- Countdown timer to next proof (gold text)
- Technical details section (monospace font)
- "View Full Proof" CTA, "Proof History" link
- Background: Matrix binary cascade

**Key Elements:**

- Countdown timer in large gold digits
- Monospace technical specs (Noir, Solana, block height)
- Shield icon with animated glow on verification

## 3. Private Transfer

**Purpose:** Send Goldbacks with privacy mode enabled

**Layout:**

- Header: "Send Goldbacks Privately"
- Amount input (large, centered, gold border)
- Recipient address field with paste button
- Privacy toggle (ON/OFF) with explanation text
- Asset selection: Horizontal scroll of Goldback cards with checkboxes
- Transaction summary card (amount, fees breakdown)
- "Send Privately" CTA (gold, with lock icon)
- Background: Subtle red binary pattern

**Key Elements:**

- Privacy toggle with shield icon and green indicator

- Fee breakdown showing network + privacy fees
- Lock icon on primary CTA

## 4. Onboarding

**Purpose:** Welcome new users, explain core features

**Layout:**

- Large Obsidian Shield logo at top
- Title: "Welcome to Obsidian Shield"
- Subtitle: "Serialized Gold. Daily ZK Proofs. Complete Privacy."
- Three feature cards (stacked vertically)
- "Get Started" CTA (gold, with arrow)
- "Learn More" link
- Background: Matrix binary cascade

**Key Elements:**

- Feature cards with icons and concise descriptions
- Sharp angular card borders
- High-contrast gold/white on black

## 5. Redemption

**Purpose:** Exchange tokens for physical Goldbacks

**Layout:**

- Header: "Redeem Physical Goldbacks"
- Selected assets: Horizontal scroll of Goldback cards
- Shipping form: Address, phone, delivery method dropdown
- Cost breakdown card (gold border)
- Warning banner (red): "Redemption burns tokens permanently"
- "Confirm Redemption" CTA (gold, with shipping icon)
- "Cancel" link
- Background: Terminal grid pattern

**Key Elements:**

- Red warning banner with alert icon

- Cost breakdown with gold border and clipped corners
- Shipping icon on CTA

## Developer Guidelines

### Implementation Notes

**CSS Variables** (for easy theming):

CSS

```
:root {
  --color-obsidian: #0a0a0a;
  --color-vault-gray: #1a1a1a;
  --color-gold: #d4af37;
  --color-gold-bright: #ffd700;
  --color-matrix-red: #ff0000;
  --color-terminal-green: #00ff00;
  --color-white: #ffffff;

  --font-heading: 'Orbitron', sans-serif;
  --font-body: 'Inter', sans-serif;
  --font-mono: 'JetBrains Mono', monospace;

  --spacing-xs: 4px;
  --spacing-sm: 8px;
  --spacing-md: 16px;
  --spacing-lg: 24px;
  --spacing-xl: 32px;

  --border-radius: 0px; /* Sharp corners */
  --border-width: 1px;
  --border-width-thick: 2px;
}
```

### React Component Structure:

Plain Text

```
/components
/ui
  Button.tsx
  Card.tsx
  Input.tsx
  Badge.tsx
```

```
/features
  GoldbackCard.tsx
  VerificationStatus.tsx
  PrivacyToggle.tsx
/layouts
  DashboardLayout.tsx
  OnboardingLayout.tsx
```

### Accessibility Requirements:

- All interactive elements must have 44px × 44px minimum touch target
- Color contrast ratio  $\geq 4.5:1$  for body text,  $\geq 3:1$  for large text
- All icons must have text labels or aria-labels
- Focus states must be visible (gold outline, 2px)
- Support screen readers with semantic HTML

### Performance Considerations:

- Matrix background animation should use CSS transforms (GPU-accelerated)
- Lazy load Goldback images below fold
- Debounce input fields (300ms)
- Optimize SVG icons (remove unnecessary paths)

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## Brand Voice & Messaging

### Tone

**Professional + Edgy:** Communicate security and innovation without corporate stuffiness. Use direct language that respects user intelligence.

### Key Messages

- "Every token tied to a specific serial number" (serialization)
- "365 proofs per year, 30x more than competitors" (daily ZK proofs)
- "Merchant accountability + purchase history privacy" (privacy model)
- "\$9 minimum (3 × 1GB Goldbacks)" (accessibility)

### Writing Style

- **Concise:** No fluff, hyper-direct communication

- **Technical:** Don't dumb down—users understand blockchain
  - **Transparent:** Honest about limitations (partial privacy, Q3 2026 staking)
  - **Empowering:** "Your gold, your proof, your privacy"
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## Asset Requirements

### Goldback Images

- **Format:** PNG with transparency or JPG
- **Resolution:** 800×400px minimum (2:1 aspect ratio)
- **Quality:** High-resolution scans showing serial numbers clearly
- **States:** Include verified badge overlay in UI, not baked into image

### Icons

- **Format:** SVG (scalable, small file size)
- **Style:** 2px stroke, outlined, sharp corners
- **Color:** Single-color (gold), applied via CSS fill property

### Logos

- **Obsidian Shield Logo:** Shield with circuit board pattern
  - **BlackW3B Wordmark:** Gold text, Orbitron font
  - **Formats:** SVG (primary), PNG (fallback at 2x resolution)
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## Responsive Breakpoints

- **Mobile:** 320px - 767px (primary target)
- **Tablet:** 768px - 1023px
- **Desktop:** 1024px+ (secondary)

### Responsive Adjustments

- **Mobile:** Single column, full-width cards, bottom navigation
  - **Tablet:** 2-column grids, side navigation option
  - **Desktop:** 3-column grids, persistent sidebar, larger type scale
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# Competitive Differentiation

This design system visually distinguishes BlackW3B from competitors:

**vs. PAXG** (institutional, corporate aesthetic)

→ Obsidian Shield: Cyberpunk edge, Matrix noir, accessible

**vs. ORO Gold** (traditional fintech, rounded corners, blues)

→ Obsidian Shield: Sharp angles, gold/black/red, terminal aesthetics

**vs. Generic DeFi** (purple gradients, rounded everything, Inter everywhere)

→ Obsidian Shield: Distinctive color palette, Orbitron typography, Matrix elements

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## Next Steps for Implementation

1. **Set up design tokens** in CSS variables or Tailwind config
  2. **Build component library** starting with Button, Card, Input
  3. **Create layout templates** for 5 core screens
  4. **Implement Matrix background** animation (CSS or Canvas)
  5. **Source Goldback images** with proper serial number visibility
  6. **Test accessibility** with screen readers and keyboard navigation
  7. **Optimize performance** for mobile devices (primary platform)
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**Design System Version:** 1.0

**Last Updated:** February 1, 2026

**Contact:** BlackW3B Design Team