

Memoir.ai — UX Specifications & Screen Specifications

Document Control

Document Title: UX Specifications & Screen Specifications

Product: Memoir.ai

Version: v1.0

Status: Draft

Owner: Product & UX Engineering

Last Updated: YYYY-MM-DD

Purpose

This document provides implementation-level UX specifications for Memoir.ai screens previously lacking detailed definition. It establishes consistent UI behavior, interaction patterns, animation language, and routing structure required for engineering execution.

Scope

This specification applies to Billing, Settings, and Snapshots screens, global layout conventions, routing requirements, accessibility expectations, and error-handling behavior. Visual assets and code implementation are out of scope.

Audience

Frontend engineers, UX engineers, product managers, QA teams, and accessibility reviewers.

Definitions and Terms

Vault: User storage container.

Snapshot: Generated narrative summary of selected events.

Inspector Panel: Optional contextual side panel.

Nebula Motion: Subtle animation system used across the UI.

Timeline Alignment Pulse: Completion confirmation animation.

Overview

Memoir.ai uses a consistent application shell and motion language to ensure predictable navigation and interaction. Each screen supports universal UI states while maintaining calm motion patterns.

Global UX Conventions

Application Layout Zones

- Left Sidebar Navigation
- Top Context Bar
- Main Content Workspace
- Optional Right Inspector Panel
- Modal Layer
- Toast/Notification Layer

Standard UI States

- Loading
- Empty
- Recoverable error
- Fatal error
- Success confirmation
- Background processing indicators
- Offline or vault-locked state

Motion Language ("Nebula")

- Opacity fades: 150–250 ms
- Vertical entry: 4–8 px
- Timeline pulse after completion
- Shimmer loading placeholders
- No rapid motion or flashing

Animations must never delay user action.

Billing Screen Specification

Purpose

Manage subscription plans, payments, invoices, and usage limits.

Core Components

- Plan Summary Card
- Tier Indicator
- Upgrade/Downgrade Controls
- Usage Metrics Panel
- Payment Method Manager
- Invoice History Table
- Cancellation Panel
- Trial Status Indicator
- Renewal Countdown Indicator

Upgrade Flow

1. User selects plan.
2. Comparison modal opens.
3. User confirms.
4. Payment validated.
5. Confirmation displayed.
6. Limits update immediately.

Cancellation Flow

1. User selects cancellation.
2. Confirmation modal appears.
3. User confirms.
4. Plan remains active until billing end.
5. UI reflects pending cancellation.

States

Loading: Skeleton cards.

Empty: No invoices messaging.

Error: Payment failure alert.

Success: Confirmation toast.

Settings Screen Specification

Purpose

Manage configuration, storage, privacy, imports, and preferences.

Tabs

- General
- Vault & Storage
- Imports
- Privacy & Security
- Snapshot Preferences
- Diagnostics
- Keyboard Shortcuts

Tab Responsibilities

General: Theme, landing screen, notifications.

Vault & Storage: Vault path, move vault, storage visualization, export, delete.

Imports: Default folders, deduplication toggle, parser performance.

Privacy & Security: Passphrase, timeout, analytics toggle.

Snapshots Preferences: Tone, summary length, citation automation.

Diagnostics: Logs, index rebuild, vault repair.

Keyboard Shortcuts: Viewer and customization.

States

Loading: Skeleton loaders.

Error: Vault path warning.

Success: Settings saved toast.

Snapshots Screen Specification

Purpose

Generate and manage narrative outputs.

Core Components

- Snapshot List
- Preview Panel
- Event Selector
- Version History Viewer
- Regenerate Button
- Citation Viewer
- Draft Editor
- Export Controls

Snapshot Creation Flow

1. User selects events.
2. Generation begins.
3. Progress indicator shown.
4. Draft appears.
5. User edits or approves.

Regeneration Flow

1. User regenerates snapshot.
2. Previous version archived.
3. New version displayed.

Version Navigation

Users can revert and compare versions with inline diffs.

States

Loading: Placeholder narrative blocks.

Empty: No snapshots message.

Error: Retry option.

Success: Creation confirmation.

Route Structure

Core Routes

/app

/app/timeline

/app/imports

/app/snapshots

/app/settings

/app/billing

/app/jobs

Nested Routes

/app/snapshots/:snapshotId

/app/timeline/event/:eventId

/app/settings/:tab

Parameters

snapshotId, eventId, tab, sourceId

Deep linking must restore scroll and selection state.

Accessibility Requirements

- Full keyboard navigation
- Screen reader labeling
- WCAG AA contrast compliance
- Visible focus states

Error Handling Philosophy

Errors must always provide explanation, recovery action, and safe fallback. Users must never become trapped in blocked states.

Completion Criteria

Specifications are complete when screens implement required states, navigation functions correctly, motion is consistent, and billing/settings flows are validated.