

## Memoir.ai — UX Specifications & Screen Specifications

### Document Control

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### 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.