UI Design Savings Page Documentation

1. Overview

This page serves as a savings page calculator for future investment with interest rate and years for the customer to use. This page also creates a table showing how much they save each year and how much their money grows through investing.

2. Typography

Document the typography choices used across the interface.

Font Family: Poppins, sans-serif

Font Sizes:

- - Header 1: 3.5rem pt
- - Header 2: 2rem pt
- - Body Text: 1.6rem pt
- -Input Labels: 1.4rem
- -Button Text: 1.6rem
- -Table Headers: 1.3rem
- -Result Values: 3rem
- -Page Subtitle: 1.6rem
- -Input Hints: 1.2rem

3. Color Palette

List all primary, secondary, and accent colors used in the design with their hexadecimal values.

Primary Colors:

- - Color Name: Light Gray | HEX: #f3f3f3 | Usage: Main Background
- - Color Name: Green Primary| HEX: #5ec576 | Usage: Buttons, Highlights, Hover

Secondary Colors:

- - Color Name: White| HEX: #ffffff | Usage: Form Container Background, Navigation.
- - Color Name: Dark Gray | HEX: #444444 | Usage: Text, Navigation Links
- - Color Name: Light Gray Background| HEX: #f8f9fa | Usage: Secondary Result Cards, Alternate Table Rows.

Accent Colors:

- - Color Name: Medium Gray | HEX: #666666 | Usage: Page Subtitle
- - Color Name: Light Gray Text | HEX: #888888 | Usage: Input Hints
- - Color Name: Light Border | HEX: #dddddd | Usage: Input Field Borders
- - Color Name: Table Border | HEX: #e0e0e0 | Usage: Table Row Borders

- - Color Name: Placeholder Gray | HEX: #999999 | Usage: Placeholder Text when no results

4. Layout and Spacing

Describe the grid system, margins, padding, and spacing conventions.

Grid System: CSS Grid (2 columns for calculator and results on desktop, 1 column on mobile screens)

Margins:

- Page Container: 4rem (top/bottom), auto (horizontal centering)
- Form Groups: 2.5rem (bottom spacing)
- Page Title: 1rem (bottom)
- Page Subtitle: 4rem (bottom)

Padding:

- Container: 0 4rem (with 2rem additional in calculator grid)
- Form Containers: 3rem
- Results Container: 3rem
- Input Fields: 1rem 1.5rem
- Result Cards: 2rem
- Table Cells: 1rem
- Navigation: 0 3rem

Spacing Rules:

- Grid gap between calculator and results: 3rem
- Form group gap: 2.5rem
- Result cards gap: 2rem
- Navigation links gap: 3rem
- Breakdown section margin-top: 3rem

5. Components

Describe reusable UI components and their states (default, hover, active, disabled, etc.).

Component Name: Navigation Bar

- Description: Provides navigation to Landing, Home, and Sign Up pages
- States:
    - Default: Dark gray text (#444)
    - Hover: Green color (#5ec576) with animated underline
    - Active: Green underline appears from left to right
- Notes: Logo scales up slightly (1.05x) on hover with cursor pointer

Component Name: Calculator Form

- Description: Input form for initial deposit, monthly contribution, interest rate, and time period
- States:
  - Default: White background with gray borders
  - Focus: Green border (#5ec576) with green shadow
- Notes: Each input has a label and hint text below explaining the field

Component Name: Calculate Button

- Description: Triggers calculation and displays results
- States:
  - Default: Green gradient background
  - Hover: Lifts up (translateY -2px) with shadow effect
  - Active: Pressed down appearance (translateY 0) **Notes:** Full width, rounded corners (10rem radius)

Component Name: Result Cards

- Description: Display final balance, total contributions, and interest earned
- States:
  - Primary Card: Green gradient background with white text
  - Secondary Cards: Light gray background with green text and green border
- Notes: Cards use flexbox for centering, prominent value display

Component Name: Breakdown Table

- Description: Scrollable year-by-year breakdown of savings growth
- States:
  - Default: White background with borders
  - Hover Rows: None (static display)
  - Alternate Rows: Light gray background (#f8f9fa)

Component Name: Number Input Fields

- Description: Specialized inputs for numerical data
- States:
  - Default: No spinner arrows (removed for clean look)
  - Focus: Green border with shadow
- Notes: Browser default number spinners removed via CSS

6. Icons and Imagery

Define icon styles, image treatments, and guidelines for visual assets.

Icon Set: None used on this page

Image Style: Logo image (nav bar) - Height: 3.5rem

Usage Guidelines: Logo is clickable and redirects to landing page. Hover effect scales logo to 1.05x size.

8. Interaction Design

Describe interaction behaviors, animations, and transitions used throughout the interface.

Animation Guidelines:

- Calculate button lifts on hover with shadow
- Navigation link underline animates from left to right
- Results appear immediately on calculation (no loading state)
- Smooth scrolling within table for long time periods

Transition Timing:

- All transitions: 0.3s (navigation, inputs, buttons)
- Button hover lift: 0.3s
- Input focus effects: 0.3s

Interactive States:

- Input fields show green glow on focus with shadow
- Calculate button provides visual feedback on hover/click
- Results section shows placeholder text before first calculation
- Placeholder hides and results appear when calculate is clicked
- Table scrolls smoothly when data exceeds visible area
- Year-by-year data populates dynamically based on time period input

Calculation Features:

- Compound interest calculated monthly
- Monthly contributions added after interest calculation
- Results formatted as USD currency ($)
- Year-by-year breakdown shows cumulative balance and yearly interest
- All calculations happen client-side (JavaScript)

9. Appendices

Include references to mockups, prototypes, and design systems if applicable.

Design System: Follows Bankist design system consistent across all pages.

Calculation Formula:

- Uses compound interest with monthly contributions
- Monthly interest rate = Annual rate / 12;
- Compounds monthly for accurate growth projection
- Displays results in USD currency format

Input Validations**:**

- All fields required
- Initial Deposit: Positive numbers, supports decimals
- Monthly Contribution: Positive numbers, supports decimals
- Interest Rate: 0-100%, supports decimals
- Time Period: 1-50 years, whole numbers only

Responsive Breakpoints**:**

- Desktop: 2-column grid (calculator + results side by side)
- Tablet (768px): Stacks to 1 column, adjusted padding
- Mobile (480px): Smaller fonts, reduced spacing, full-width elements