

CASE STUDY · 06

Business Applications & SaaS Experience

Designing digital products that support productivity,
information discovery, and intuitive user experiences.

Extensions Manager

REST Countries

Pricing Component

Card Details Form

Bookmark Page

Age Calculator

Feed Reader

Bento Grid

At a Glance

INDUSTRY

SaaS, Business Applications & Digital Products

ROLE

UI/UX Designer · Digital Product Designer









TOOLS

HTML · CSS · JavaScript · Figma · REST API

PLATFORMS

Desktop · Tablet · Mobile

PROJECTS INCLUDED

-  Browser Extensions Manager
-  REST Countries Explorer
-  Interactive Pricing Component
-  Interactive Card Details Form
-  Bookmark Landing Page
-  Age Calculator ·  Feed Reader ·  Bento Grid

WHAT I DELIVERED

- Dashboard & data management UIs
- API-driven data exploration interfaces
- Interactive SaaS pricing & form components
- Dark / light theme systems

Why Business Tools Fail Users

Complex User Flows

Multi-step tasks break when information architecture is unclear — users lose their place and abandon the tool.

Information Density

Large datasets must stay scannable. Poor visual hierarchy makes everything feel equally important.

Productivity Demands

Business users expect speed. Every extra click or unclear label has a real cost to their workflow.

Cross-Device Usability

Tools must perform consistently from a desktop dashboard to a 375px mobile screen.

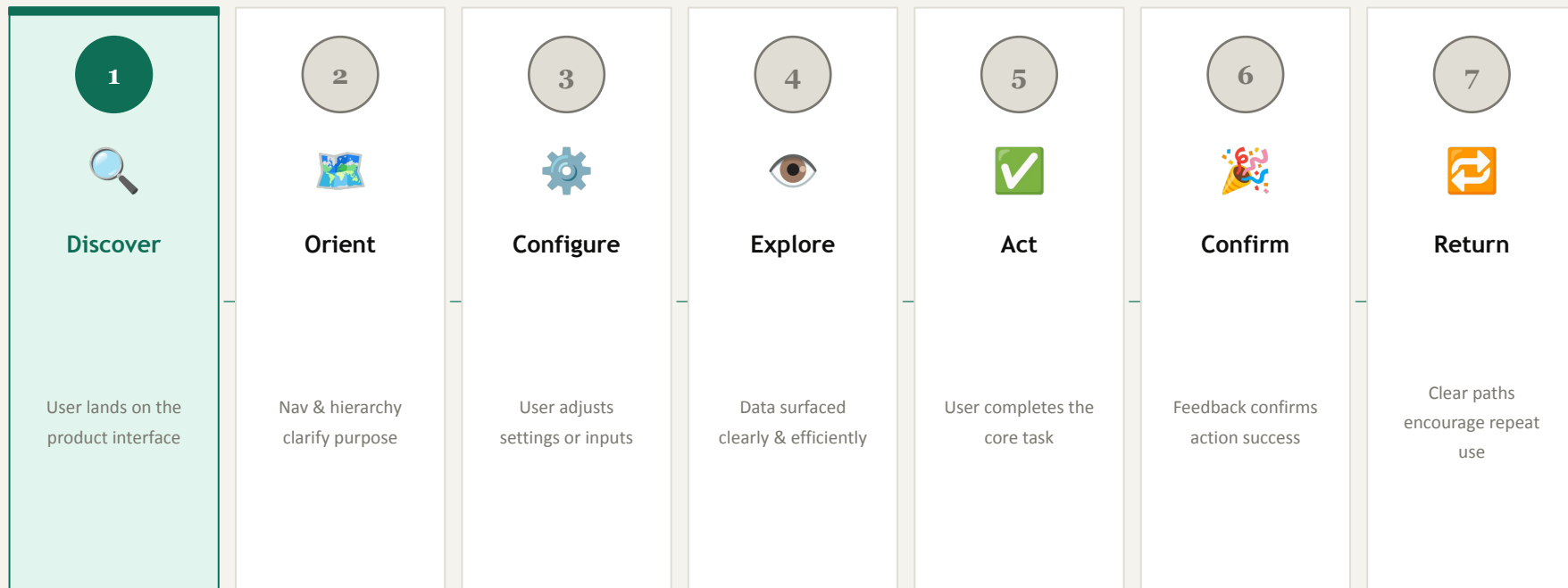
Theme Flexibility

Modern SaaS products are expected to support both dark and light viewing preferences seamlessly.

Real-Time Feedback

Sliders, toggles, and live card previews need instant visual responses to feel truly interactive.

From Discovery to Return



How Each Project Was Built

01



Research

Reviewed SaaS platforms & business tools.
Identified pain points: poor info density, slow task completion, confusing navigation.

02



Wireframe

Sketched task-efficient layouts for each product type — dashboard, explorer, pricing component, form.

03



Visual Design

Cohesive visual language in Figma — dark/light modes, component states, interactive controls, data presentation.

04



Responsive Build

HTML, CSS, JavaScript. Mobile-first. API integration for live data in Countries Explorer & Feed Reader.

05



Testing

Validated across devices & browsers. Tested dark/light switching, filter states, validation, and API edge cases.

06



Launch

All eight projects deployed to GitHub Pages — publicly accessible, live, and fully functional.

Applied Across All Eight Projects

01

Information Architecture

Structured content hierarchies ensure users find what they need without hunting through menus.

02

Productivity Design

Reduce steps, eliminate unnecessary UI, surface the most-needed actions front and centre.

03

Immediate Feedback

Every interaction — slider, toggle, input — responds visually in real time.

04

Consistency

Predictable design patterns reduce cognitive load and build product familiarity across projects.

05

Responsive Design

Every interface is mobile-first, adapting gracefully to any screen without losing usability.

06

Theme Systems

Dark & light modes from a single token-based system — not afterthought overrides.

Browser Extensions Manager

A polished dark/light mode dashboard for managing browser extensions — filter tabs (All / Active / Inactive), toggle switches, and Remove controls. Card grid layout with consistent component design.

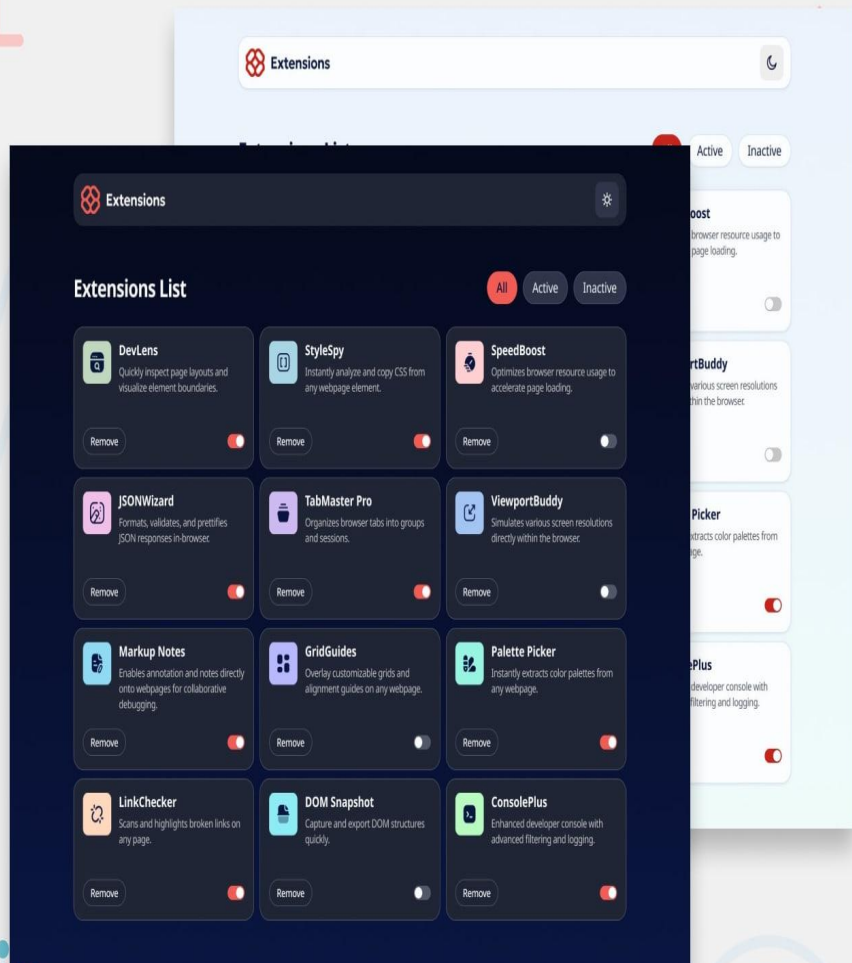
BEFORE → AFTER

Before: Extensions scattered in a browser list with no visual hierarchy or filtering.

After: Card dashboard with filter tabs, toggle controls, and theme switching.

MY ROLE

UI Design · Dashboard UX · Theme System · Front-End Development



REST Countries Explorer

BEFORE: 250+ countries as a raw list with no search or discovery path. → AFTER: Searchable, filterable card grid with rich detail pages and dark/light theme.

Live Search

Real-time filtering of all 250+ countries by name as the user types.

Region Filtering

Dropdown filter by Africa, Americas, Asia, Europe, Oceania.

Country Detail Pages

Full detail view with flag, population, capital, currencies, languages.

Dark / Light Mode

Full theme switching with a single toggle — CSS custom property system.

MY ROLE:

✓ UI Design

✓ API Integration

✓ Data Exploration UX

✓ Dark Mode System

✓ Front-End Dev

Interactive Components

PROJECT C · PRICING

Interactive Pricing Component

Traffic-based slider with live price calculation, monthly/yearly billing toggle, and 25% yearly discount badge.

BEFORE: Static pricing tables don't reflect user-specific usage.

AFTER: Live slider with instant price update and billing comparison.

- UI Design
- Interactive Components
- Pricing UX
- Front-End Dev

arunankrn81.github.io/interactive-pricing-component-main/

PROJECT D · FORM UX

Interactive Card Details Form

Live card preview updates as user types — cardholder name, number, expiry, CVC all reflected in real time. Full inline validation and success confirmation state.

BEFORE: Payment forms provide no visual feedback — errors only on submit.

AFTER: Live card preview & inline validation reduce errors and boost confidence.

- UI Design
- Form UX
- Validation Design
- Live Preview

arunankrn81.github.io/interactive-card-details-form-main/

Four Additional Builds

E · LANDING PAGE

Bookmark Landing Page

SaaS product page with tabbed features, browser extension download cards, accordion FAQ, and email CTA.

[Landing](#) · [Tabs](#) · [FAQ](#) · [Email CTA](#) | arunankrn81.github.io/bookmark-landing-page-master/

F · UTILITY

Age Calculator App

Input date of birth — get precise years, months, days. Animated number reveal. Clean validation for invalid dates.

[Animation](#) · [Validation](#) · [Utility](#) | arunankrn81.github.io/age-calculator-app-main/

G · CONTENT APP

Frontpage Feed Reader

Dark-themed news feed reader with sidebar source filtering and article card grid. Content management UI patterns.

[Dark Mode](#) · [Feed](#) · [Filter](#) · [Layout](#) | arunankrn81.github.io/frontpage-feed-reader-main/

H · CSS / GRID

Bento Grid + Chat CSS

AI social media bento grid with asymmetric card sizes + a dog-walking chat app UI built entirely in CSS.

[CSS Grid](#) · [Bento](#) · [CSS Illustration](#) | arunankrn81.github.io/bento-grid-main/

What This Case Study Demonstrates

8

Live Projects
Deployed on GitHub Pages

- Dashboard UX
- Interactive Components

5

UX Principles
Applied Consistently

- SaaS Interface Design
- Theme Systems

100%

Responsive
Mobile · Tablet · Desktop

- API Integration
- Responsive Product Design

SaaS, Business Applications & Digital Products

This case study demonstrates the ability to design modern digital products that improve usability, simplify workflows, support productivity, and deliver intuitive user experiences across multiple business and SaaS environments.

PORTFOLIO HIGHLIGHTS

✓ Dashboard UX

✓ API-Driven Data Exploration

✓ Dark / Light Theme Systems

✓ Responsive Product Design

✓ SaaS Interface Design

✓ Interactive Component Design

✓ Form & Validation UX

✓ Information Architecture