CMS Claims Data API Websites Redesign Case Study

My Role

I drove this project as the lead strategist, researcher, designer, and developer. I worked closely with a content strategist and was supported by a talented team of product managers and developers.

Goals

- Drive adoption and engagement of the three CMS Claims Data APIs (AB2D, BCDA, and DPC)
- 2. Improve the sites' developer experience
- 3. Establish a standardized design system, templates, and processes.

Research Methods

- User Journey Map IMG
- Current State Site Mapping
- Gap Analysis
- Card Sort IMG
 - 34/36 task flows validated under new information architecture
- Competitive Analysis IMG
- Usability Testing
 - For example, "Where would you go to learn more about how you might use AB2D for your business needs?" instead of "Does this product fit your business needs?"
 - Users expressed frustration when searching for the About and Use Cases pages.

- "Where'd that page go? " Engineer
- "Ok, where was I before?" Designer
- "I want to find permitted uses next since I read that on home. Now where?" – Product Manager
- "Is there an easier nav to find these things?" Designer
- 3/7 users could not find the Onboarding page in under 2 minutes

AB2D-Specific Research

- User personas
- Qualitative user interviews focused on API use cases
- Web Analytics
 - Example: Content drilldown informed navigation hierarchy
 - Top pages that users navigated to from the homepage:
 - 42% Try the API
 - 20% Understanding the Data
 - 18% Getting Started
- Pain Point Inventory
- User needs statements

Approach

- Focus on the developer experience
 - Diataxis documentation framework
 - AAARRP framework for developer relations strategy
- Focus on standardized site components, templates, and design patterns
 - Faster time to delivery
 - Repeatability
 - Easier long-term maintenance
 - User-tested and validated
- Content-first
 - Plain language
 - We developed a content style guide for the Data Analytics and Strategy Group (DASG) at CMS to establish program-specific guidelines

- Agile and iterative
 - Pages with complex content or user needs were mocked up in Figma for quicker reviews, experimentation, and iteration.
 - Pages with straightforward content, such as documentation pages, were built directly on Jekyll templates in the development environment.
 - After all pages were built, we proceeded with final team review and approval

Design

- Implemented a researched, user-tested and validated universal information architecture.
- Leveraged USWDS for maintainability and consistency with other CMS Claims Data API and government websites.
- Created an AB2D brand style guide
- Designed templates for each type of page based (Home, About, Documentation, etc) Templates are:
 - User tested and validated
 - Conformant with industry standards
 - Responsive
 - Accessible (WCAG AA)
 - Customizable with Markdown and HTML
- Documentation Template IMG (the one where each component is explained)
- User testing
 - Quote from user testing: When asked, "Where would you go to learn more about how you might use AB2D for your business needs?"
 100% of users brought up use cases
 - User Testing Insight
 - In AB2D usability tests, technical task flows using this navigation template had a perfect success rates with technical users.
 - The AB2D Data pages did NOT use this template at the time of testing, which provided a control.

• Quote: "I'd expect to find a Data Dictionary and sample files here.... [clicked on page] And yeah, there they are." – CMS Engineer