



# CRS

# Design System

## Sprint 5 Final Presentation

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# Meeting Agenda

## Objectives

- Present final deliverables of the CRS Design System project

## Agenda

1. Background
  2. Process
  3. Deliverables: The CRS Design System
  4. User Testing Results
  5. Recommendations and Limitations
  6. Questions from Public
  7. Discussion with LOC
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# Background

# Project Overview

- The Library of Congress is redesigning the Congressional Research Service website, **CRS.gov**.
  - As part of that process, CRS seeks to develop a **Design System** in Figma based on the **CRS brand** and the guidelines of the U.S. Web Design System, **USWDS**.
  - The design system will then be used to create high-fidelity mockups of key CRS.gov pages.
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# Library of Congress (LOC)

- Oldest federal cultural institution in the United States.
  - Collections include millions of books, recordings, photographs, newspapers, maps and manuscripts.
  - Missions include researching inquiries made by members of Congress, through the **Congressional Research Service**.
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# Congressional Research Service (CRS)

- **CRS** is a public policy research institute of the United States Congress.
  - CRS works primarily and directly for members of Congress and their committees and staff on a confidential, nonpartisan basis.
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# Design Systems

A **design system** is a complete set of standards intended to manage design at scale and maintain consistency using reusable components and patterns.

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# U.S. Web Design System (USWDS)

USWDS is a toolkit of principles, guidelines, components, page templates, and code that makes it easier to build accessible, responsive government websites.

*“We built the USWDS to help build fast, consistent, responsive, accessible websites from research-strengthened components for the American public.”*

- USWDS Website

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# Project Goals

- Create the CRS.gov design library in Figma
  - Document the CRS.gov Design System, including a style guide and component documentation
  - Create high-fidelity mockup of key CRS pages
  - Validate and refine design choices through benchmarking (researching other design systems) and user research
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# Process

# Design Sprints

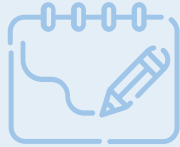
Week 1

**Map**



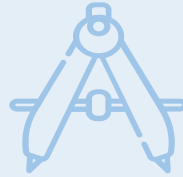
Week 2

**Sketch  
& Decide**



Week 3

**Prototype**



Week 4

**Test**



# Project Timeline

The project include 3 sprints in total. During the **first two sprints**, we:

- Did **background research**
  - Conducted **7 expert interviews** and create 2 user journey maps:
    - Designers
    - Developers
    - LoC experts
  - Created parts of the design system and conducted **user testing with 13 participants**:
    - 4 HCIM students
    - 9 professionals (designers, developers, researchers)
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# Background Research

## Design System Research

- USWDS
- Apple Human Interface Guidelines
- Atlassian Design System
- Base Web (Uber)
- Material Design

## UI Inventory

- Audited the current CRS pages to create an inventory of UI components

## Competitive Analysis

- AEI
- Aspen
- Brookings
- Cato
- Heritage Foundation

# Expert Interviews Findings

When creating a design system we need to:

- Create an **efficient, flexible**, and clearly **organized** design system
- Provide clear design **principles, guidelines**, and **use cases**
- Maintain **consistent** organization in Figma and Confluence
- Establish plans for design system **updates**

The CRS design system needs to:

- Reflect the **high quality service** offered by CRS experts
  - Reflect a **modern** website
  - Improve **readability/legibility** on content-dense pages
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# Design System Creation & User Testing

- Created design library in Figma
  - Drafted documentation in Confluence
  - Conducted user testing sessions to:
    - Test the ease of use of the design system
    - Get feedback on the organization of the Design System; Figma and Confluence pages
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# User Testing Findings: Figma

## Strengths

- Variants are clearly organized.
- Information hierarchy is well organized.
- Design components are separate from documentation.

## Weaknesses

- “Pattern” terminology is not widely recognized.
  - Format of component designs needs to be unified and improved.
  - Some naming conventions of component are too technical for designers.
  - Certain components lack hover & selected state.
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# User Testing Findings: Confluence

## Strengths

- The documentation is well organized and easy to navigate
- Figma frames linked in the documentation are helpful
- Accessibility guidelines are helpful

## Weaknesses

- Lacks guidelines on when to use / not use a component
  - Illustrations of do's and don'ts in the guidelines would be helpful
  - Guidelines on transitions for interactive components and illustrations of these components would be useful
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# **Deliverables:**

## **The CRS Design System**

# The CRS Design System

## Figma

The design system library includes:

*Style guides*

*Components*

*Patterns*

## Confluence

The design system documentation includes:

*Style guides*

*Usability guidelines*

*Accessibility guidelines*

# CRS.gov Page Mockups

- Used the CRS design system to create mockups of key CRS pages
    - One Topic landing page
    - Media page
    - Recent Reports page
    - Place a Request form
    - About CRS page
  - Conducted user testing with 5 participants
  - Analyzed data
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# User Testing Results

# User Testing Overview

- We evaluated design system using 5 page mockups.
  - In total, 5 users participated:
    - UX Strategist
    - User Experience Analyst
    - Digital Accessibility Specialist
    - User Experience Designer & Researcher
    - Accessibility/Quality assurance
  - Experience level with CRS.gov varies.
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# User Testing Objectives

1. Feedback on components
  2. Feedback on pages
    - a. Readability
    - b. Navigation
  3. Ratings
    - a. Modern feel
    - b. Scannability
    - c. High-quality service
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# Components: Strengths & Weaknesses

## Strengths

- Breadcrumb helpful for navigation
- Clear tab navigation
- Helpful step indicator
- Helpful "clear all information" button

## Weaknesses

- Unclear meaning of icon on "Recent Reports" listing
  - Video and description do not have the same width
    - Clarify purpose as caption/description
  - Inconsistent format of hyperlinks
  - Unrecognizable clickable elements
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# Pages: Strengths & Weaknesses

## Strengths

- Breathable, scannable layout
- Contrasting, visually pleasing colors
- Intuitive buttons: placement and color

## Weaknesses

- Unclear purpose conveyed by the “One Topic Landing” page
  - Too much white space on the “About CRS” page
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# Ratings

In total, 5 users participated:

- N=5
  - This is a small sample size, so the results are *suggestive but not definitive*.
  - *Average scores presented*
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## Modern feel:

*“Because of the nice font and breathing room, it looks more modern. Not anything innovative about page layout, they are just reasonable.” (U1)*

*“Simplistic, standardized look and feel, streamlined.” (U3)*

*“It doesn’t do the thing that commercial websites do - giant image occupying screen but the tabs are pushed down.” (U5)*

*“The page looks clean, modern, and serves its functions well.” (U2)*

*“They look modern, especially for a government site where you can't include a lot of animations etc.” (U2)*

4.5 / 5

## Scannability:

*“There's a lot of breathing room and it's overall easy to read the presented information.” (U4)*

*“Easy to scroll up and down to look for stuff. Good use of different font styles.” (U1)*

*“The list's good, comfortable.” (U5)*

## High-quality Service:

4.5 / 5

*“The branding suggests official organization backing. The content seems sufficient to gauge trust.” (U2)*

*“I’ll give a 4... How does the design allow for intuitive navigation, i.e. how to search for certain items on the CRS Reports and Media pages?” (U4)*

# User Testing Recommendations

- Balance between reading efficiency and modern feel when using white space
- Add a search & filter functionality
- Give user control over how many results to see on a page

# Project Limitations

- Confluence
  - Free plan - limited functionalities for page layout
  - Embedded Figma frames - inaccuracy & loading time
- Out-of-scope elements
  - Code snippets
  - Implementation guidelines
- Time constraint - future goals
  - Interactions & transitions
  - Mobile mockups

# Questions From Public



# Discussion with LOC

# Next Steps

Handing off:

- Figma file
- Confluence XML file and PDF
- Main findings from all sprints

**Thank you!**