# Modernizing SERP through Human-Centered Design

Servicewide Electronic Research Program

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#### LAUREN HU

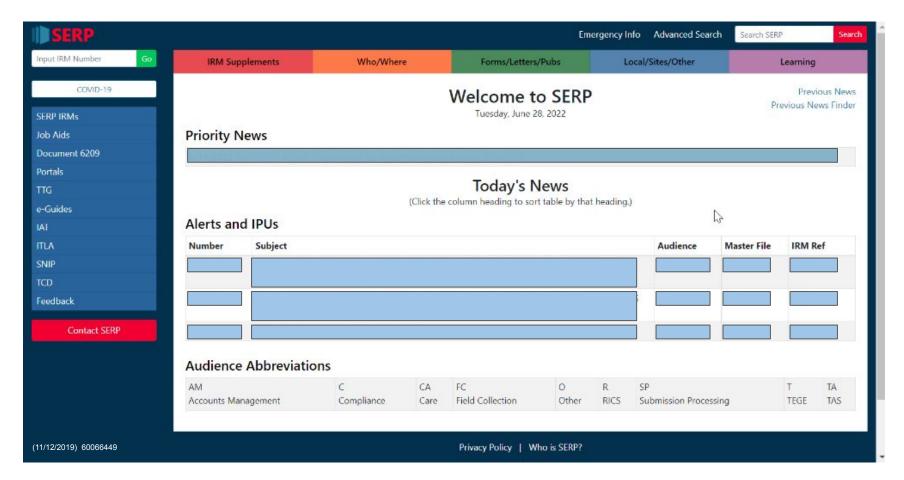
### What is SERP?

#### - Servicewide Electronic Research Program

- Provides 70k+ frontline IRS employees intranet access to IRMs and other reference materials
  - Ex: Correspondence Letters, Forms, Publications, Information Alerts, Job Aids
- In the past, SERP has reached 50M+ hits a month, with users executing as many as 500-1000 searches per minute
- Maintained on SERP database using XML, HTML, CSS, and JS

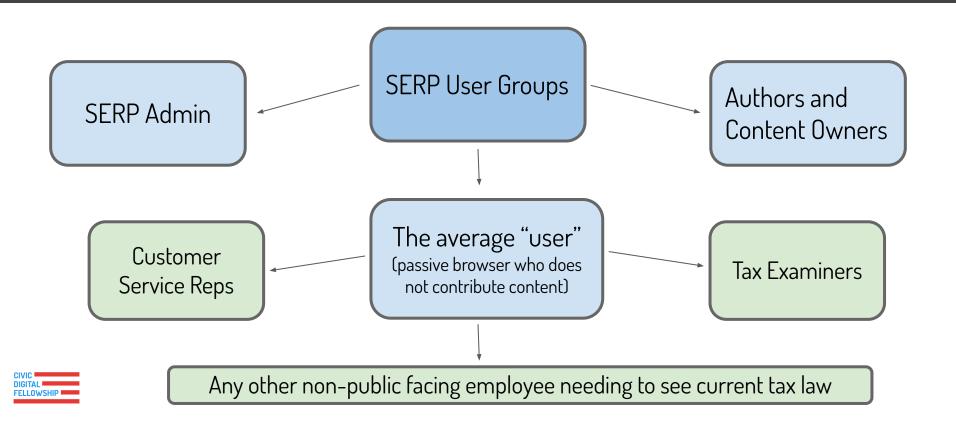
**Goal**: To improve accessibility and UI of SERP's website featuring user-centric design concepts and modern front-end technologies.







### Who Uses SERP?



### **Question Synthesis**

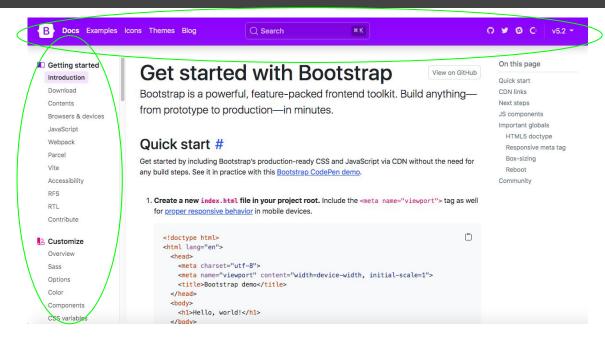
As SERP contains very technical and skill-based content, what basic understanding do or should users have and what could be done to increase that if necessary?

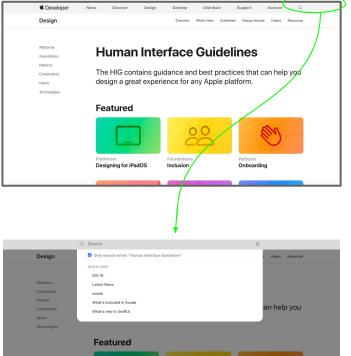
What are common pain points for users now and what alternatives exist already or could be used to solve this? If a resource already exists, how can we point users to it effectively?

Are the design changes being made justifiable? How much does the new system resemble the old one and do the changes ultimately add value or bring about confusion?



# Research and Comparative Analysis

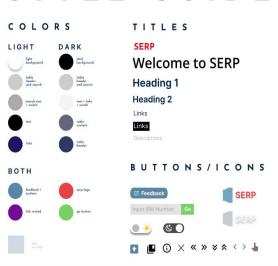


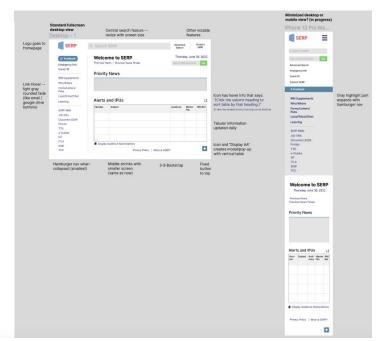




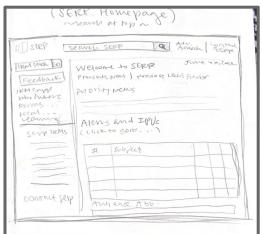
# Wireframing / Planning

#### STYLE GUIDE









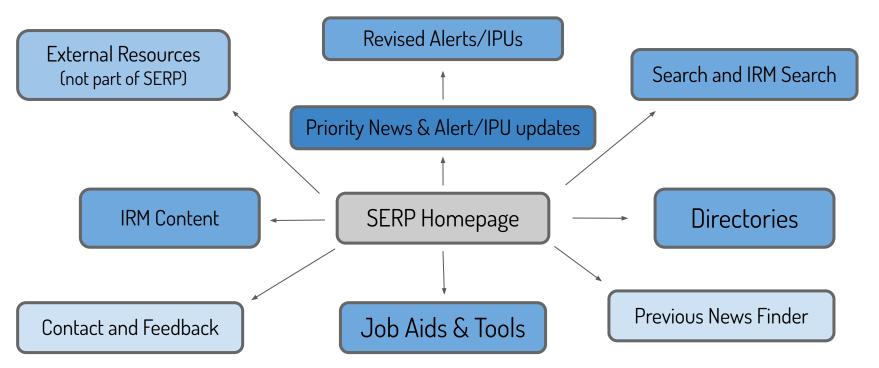


Sketched by hand & Wireframed using Figma

### High-level Site Map Focus

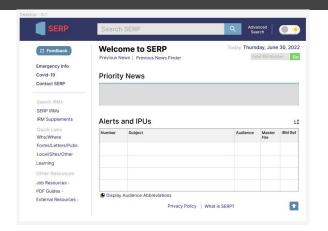
least prevalent Prevalence of information on page from a user perspective

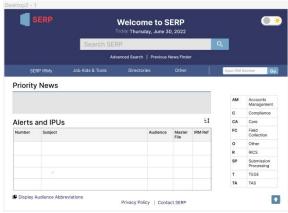
most prevalent

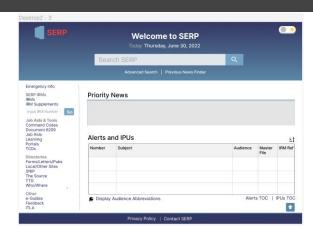




# Prototyping





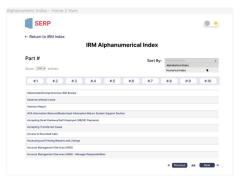




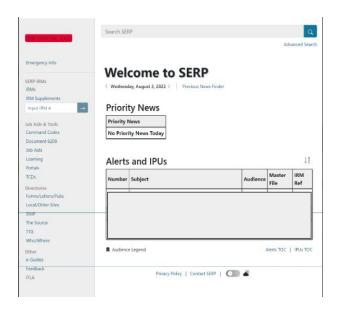


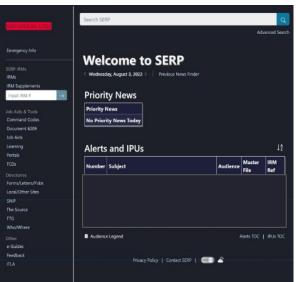


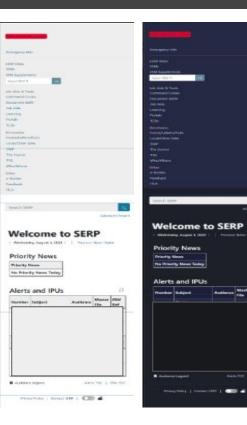




### Iterating

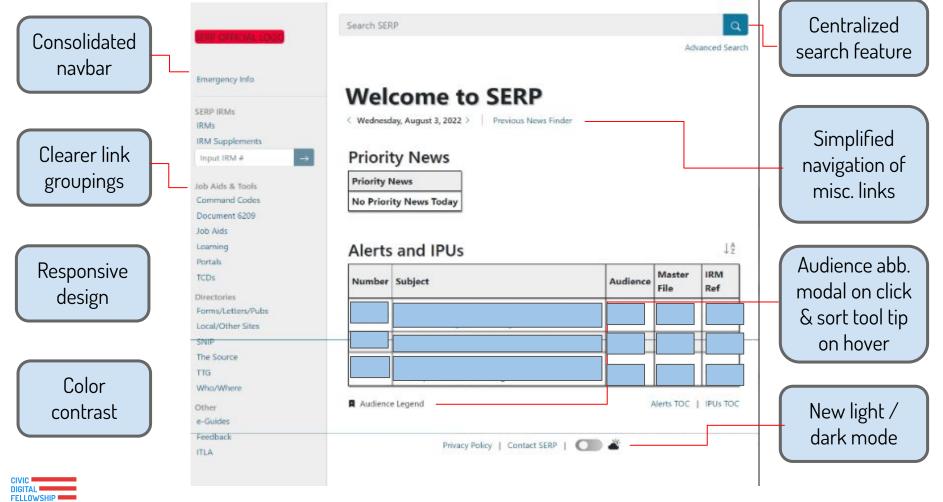






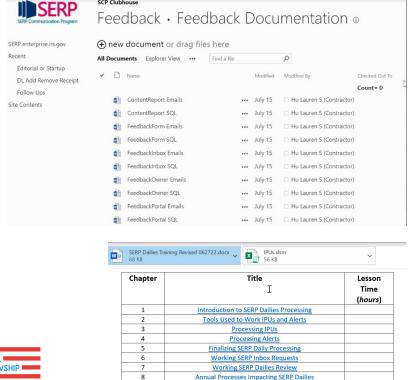


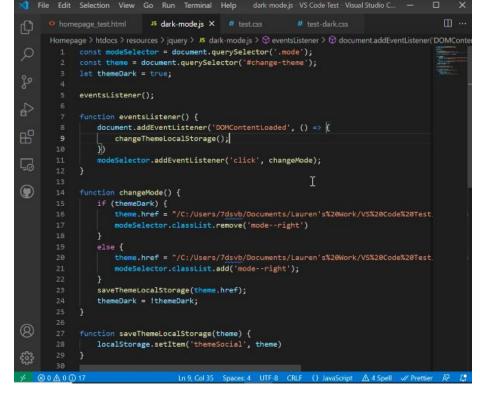
Developed locally using Visual Studio Code



<sup>\*</sup> Disclaimer: The blue horizontal lines are a result of using the Snagit screen capture scroll feature. They are not part of the mockup.

# Accomplishments Along the Way







### What's Next?

- Debug on live server
- Identify a variety of users to interview to further flush out user personas
- Test design with users to collect and analyze feedback
  - Formulate detailed questions and metrics to test upon
- Present mockups to IT for implementation



### Takeaways

- 1. Designing is for nobody and everybody at the same time.
- 2. More work doesn't always equal more value.
- 3. There is a need and space for design in government.



### THANK YOU!

To Coding It Forward, the IRS, NextGen, and everyone at SERP who made this experience unforgettable



