GS Design Systems

Status Launched

User Context 01 Discover 02 Define 03 Design 04 Deliver 05 Impact 06

User Context

Goal

Create GS's first Design Systems Component Library to improve user experience and consistency across products

User problem

Goldman Sachs(GS) has multiple enterprise and consumer facing products. Each product has its own branding externally but sends users back to GS's internal sites. This causes user confusion because visual systems are inconsistent. Because each visual system is custom built, developers are spending a lot of time building out each feature and 3 sprints behind design.

Hypothesis

A component-based UI Toolkit will help create a better user experience across GS products and save developer time.

Success Criteria:

#1 Reduction in customer complaints#2 Increase in developer satisfaction and productivity



Discovery

In the discovery phase, we dug into the user to identify what could improve their pain points.

User Definition

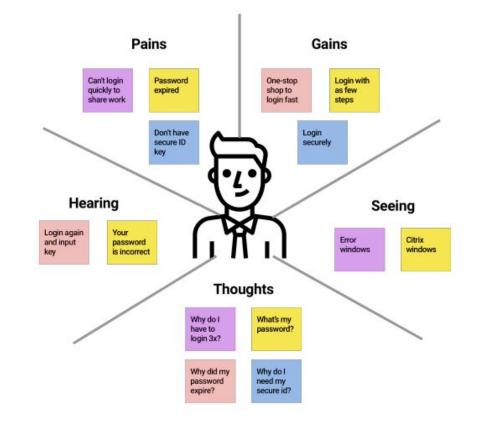
Define the user by facilitating a workshop with stakeholders to identify primary users to focus on.

Product Definition

Brainstorm potential solution with primary stakeholders. All stakeholders would vote and align on which solution to move forward with. Interviews + Affinity Map

I **interviewed** 5 developers and product managers who worked on internal tools to identify pain points.

We created an **affinity map** where it was revealed that developers were often 3-4 sprints behind designers because of privacy and access issues, and had heavy tech debt.

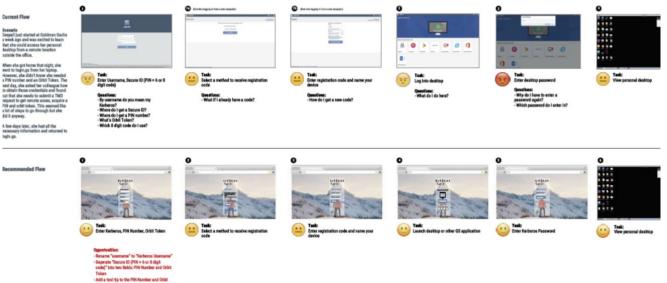


Jobs-to-be-done

Created a jobs-to-be-done to identify the internal GS user to focus on.

We analyzed issues of privacy, inability to access data, and lag time with development.

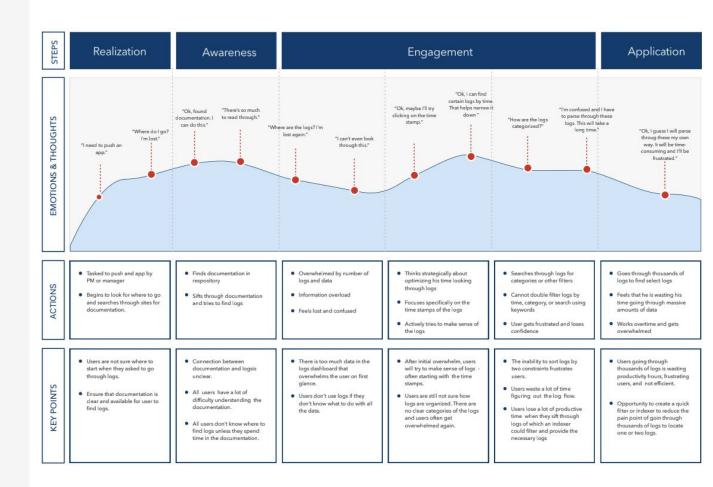
ingle.60 Current State Job to be done: Access personal desktop from a remote location (Mac or PC)



Token Fields to let users know how to obtain those credentials

Critical User Journey

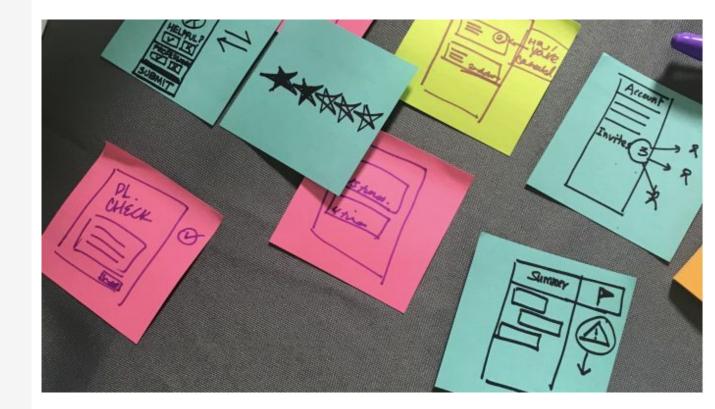
A CUJ was created to highlight the touchpoints that internal GS developer users might have to hone in on how to provide a potential solution.



Define

User + Product Definition: Ideation Workshop

Facilitated a 3-day ideation workshop with developers, product, and designers to identify the problems GS users were facing with the current GS Design Systems.



The user problem:

When users logged into trading or research portals, visual systems would change from one brand to another. **Visual changes would confuse users**.

Inconsistency caused time inefficiencies with developers having to custom build each page and feature resulting in a Frankenstein effect.



Trade policy continues to evolve on two tracks, with growing risks to US-China trade despite fading risks in some other areas, like NAFTA. We expect the White House to announce tariff: additional \$200bn in imports from China as soon as next week (the week of Sept. 10), though remains uncertain.

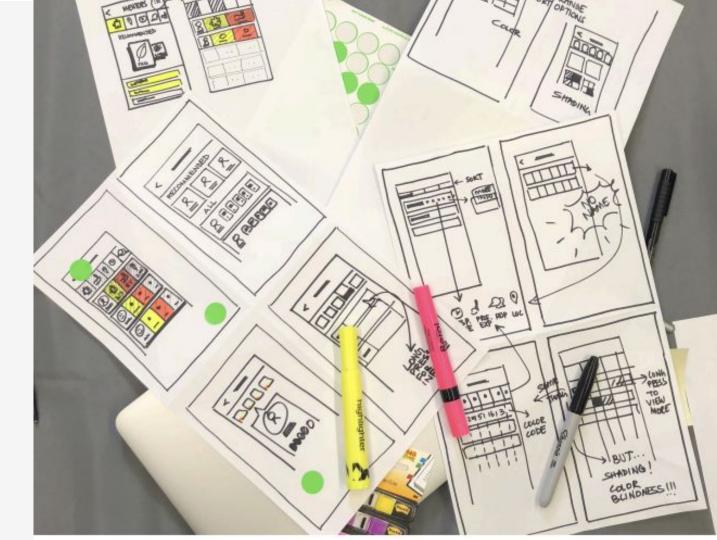
2,871.68 -7,4	sdaq 100 130.26 91 (-0.31%)	Russell 2000 1,713.18 -1.29 (-0.08%)	VIX 14.8 0.23
Explore Marquee			
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Trade on Marquee Execute with precision with the all new Marquee Trader.	Portfolio Analy Understand performand risks and create custom	ce, identify	Investments Discover ideas and tar themes across all ass classes.
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Define

Design Sprint: Alignment

Our team facilitated alignment through dot voting to identify which components developers, product, and designers agreed were the most important.

We identified Foundational Typography and Colors, Cards, and Interactive States as our MVP component Toolkit.





Constraints of Redesign

There were the prioritized areas our team focused on redesigning. We worked to **visually design each component initially in Adobe Illustrator, exported as SVGs and PNGs to Powerpoint**.

Our first Component Toolkit was in Powerpoint and highly usable across the bank because the accessibility of Powerpoint. Design tools such as Figma, Sketch, Adobe, and Invision were not introduced until the next year because of firewalls.

While only designers had access to design tools, we began to move components to Sketch over the course of a year.

Туре

I performed an audit of the typography and color across the brands to focus on a foundation.

Navigation

A primary navigation existed. However, secondary and tertiary navigation items were not available.

Cards

Customized content views (out of scope) and user generated custom reports remove need to call for information.

Grids

Self-service money management experience.

Visual Design

I audited and identified the typography, brand colors, and element sizes with an Accessibility vendor for our UI Toolkit. Our Design System was AA accessible.

To implement, I worked with a front-end developer to create a Foundational Styles page for these Visual Design guidelines.

		Law year	
Hex Value	Color	Variable	Hex Value
#FAFAFA		\$gray-550	#727273
#F2F2F2		Sgray-600	#656666
#565656		Sgray-650	#595959
#090909		\$gray-700	#404040
200000%		Sgray-750	#404040
#8F8F8F		\$gray-800	#333333
#838383		Sgray-850	#262626
6666668		\$gray-900	#1A1A1A
#BCBCBC		Sgray-950	#000000
#909090		\$gray-1000	#090909

Green

...

Hex Value	Color	Variable	Hex Value
ID9E9FF		Sgreen-100	#D9FFEF
(B302FF		\$green-200	#AFFADB
ISCBOFF		Sgreen-300	#79F2C0
66A6FF		Sgreen-400	#4566A3
#3388FF		\$green-500	#290088
IOF6DEE		Sgreen-600	#008368
005500		\$green-700	#009959
1004099		Sgreen-900	#007343
#009073		Sgreen-900	#004D2D
#00204D		Spreen-1000	#00331E

Hex Value	Color	Variable	Hex Value
#FFFBE9		Sred-100	#FFEBE6
#FFEEBF		Sred-200	#FFDGCC
#FFE499		Sred-300	#FFAFA6
#FFD666		Sred-400	#FF9990
#FFC983		Sred-500	#FF6259
#FFB900		\$red-600	#594230
#FAA700		\$red-700	#D93016
#FAA700		\$red-800	#9F2A13
#F27900		\$red-900	#461309
#ED6800		\$red-1000	#900900

ELEMENT	SPECIMEN
h1	The quick brown fox
h2	The quick brown fox
h3	The quick brown fox
h4	The quick brown fox
h5	The quick brown fox
hő	THE QUICK BROWN FOX
body	The quick brown fax

UX Team: ameliasander@

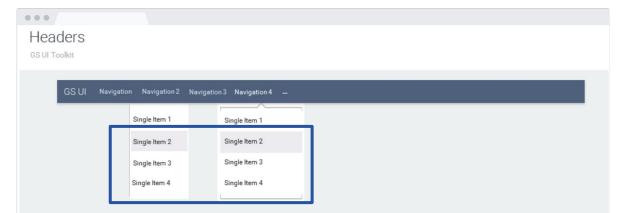
Component Library

- Built cards and profiles to focus on user activity status in GS's internal and external systems
- Cards and profiles were expanded to create page templates that designers and developers could drag and drop to quickly design and implement new pages.

... Profiles GS UI Toolkit Profile Avatar and States -05 **Charlotte Wilkinson** Data Analyst, London 🔽 Email J Phone Chat Andrew Smith P Data Analyst, London 🔽 Email Dhone

Headers and Navigation

- Navigation was expanded to improve findability for users and display multiple nested navigation items clearly.
- Interactive hover states were developed to show when users were hovering over or selecting specific menu items



GSUI Navigation Navigation 2 Navigation 3 Navigation 4 ---

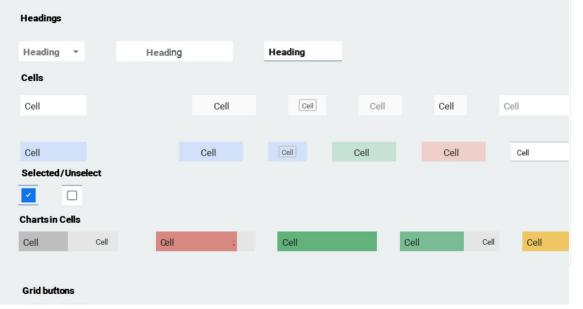
Header		Header	Header
Single Item 1	Single Item 1	Single Item 1	Single Item 1
Single Item 1	Single Item 1	Single Item 1	Single Item 1
Single Item 1	Single Item 1	Single Item 1	Single Item 1
Single Item 1	Single Item 1	Header	Single Item 1
Single Item 1	Single Item 1	Single Item 1	Single Item 1
Single Item 1	Single Item 1	Single Item 1	Single Item 1

Grids

- Delivered **12-column grid systems** based on 36PX to help with managing Big Data trading products
- Responsive cells were designed to show error state and interactions for selected items.

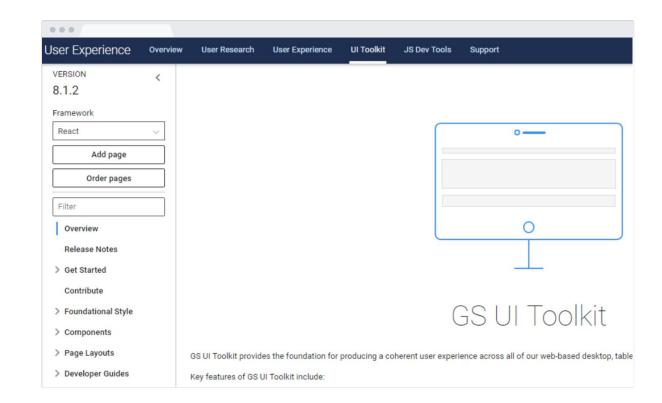
Grids GS UI Toolkit

Default – 36Px



Deliver

Deliver



UI Toolkit Design System

The new component based Design System allows users to drag and drop components to design + build pages.



8.1.2 Framework	
Add page	
Order pages	
Filter	
Overview	0
Release Notes	
> Get Started	
Contribute	
 Foundational Style Components 	GS UI Toolkit
> Page Layouts	GS UI Toolkit provides the foundation for producing a coherent user experience across all of our web-based desktop, tablet
> Developer Guides	Key features of SC UI Toolkit include:
Design Tools	An uplifted look and feel designed in-house and built using Twitter Bootstrap 4
Accessibility	Support for both React 16 and Angular 5 by one of three means: MacBook Pro

Deliverables & Outcomes

Successfully launched Component Library and scaled to Marcus, Marquee, GS Research products. Reduced development sprint time by 40%. Improved CSAT score and Developer Satisfaction.