jeffrahman.works

Robin Assist App

Debbie Vasquez

🥒 robin.

The Challenge

The Robin Assistant ambiently captures clinical data in the exam room, but behind the scenes virtual scribes needed a way to quickly review media, multiple sources of clinical data and process patient visits to build quality documentation for doctors.

The Idea

Create an app that gives easy, reliable access to the patient data in an order that simplifies the complexities of medical note creation.



My Role

I was responsible for leading research, concepting and creating design systems, roadmap ideation, and branding guidance for Robin Healthcare's internal scribe app - Robin Assist.

Supporting Team:

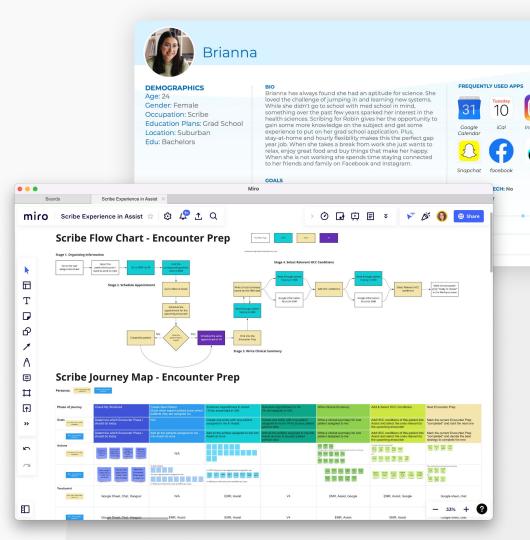
- (2) Product Manager
- (2) Product Designer
- (1) UX Copywriter
- (1) UX Researcher

Tools Used



User Research

Conducted quantitative and qualitative research with medical scribes through a series of surveys and 1:1 interviews. The work resulted in a user journey map and initial key flows to consider as we started to think through the experience design.



Paper Prototypes

Rapid paper prototyping was done on key flows to gain stakeholder alignment and better visualize the Robin Assist roadmap.



Low & High-fidelity Wireframing

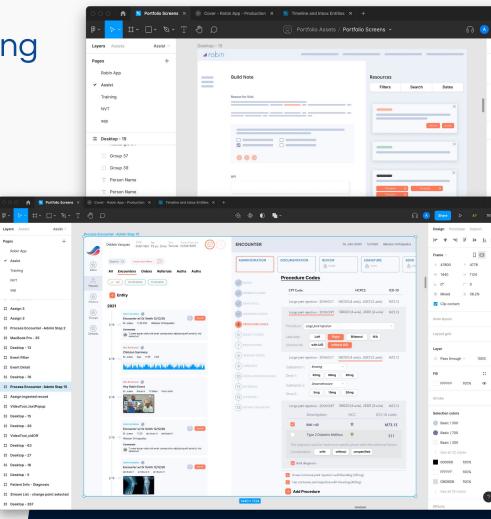
Pages

✓ Assist

Training

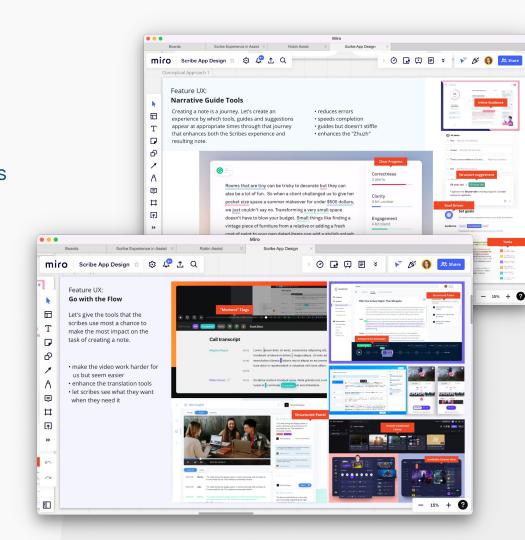
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Developed wireframes to articulate functionality to engineering partners to determine scope and feasibility. Initial prototype testing performed with users to validate patterns and UX decisions before bringing into the design phase.



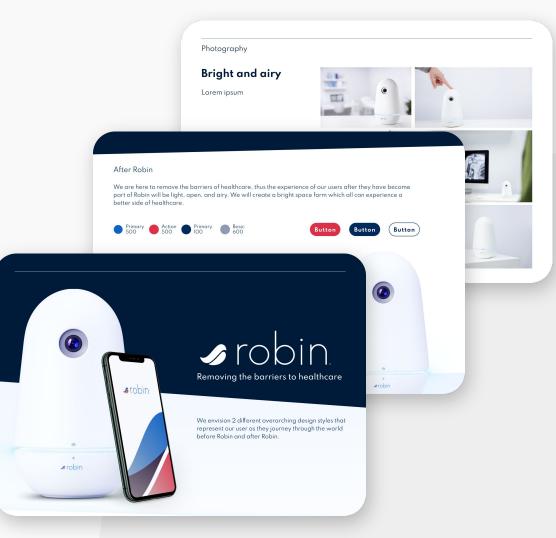
Design Discovery

Conducted a landscape audit of desktop documentation tools and media tools. This allowed us to identify best practices as it pertained to planning the Robin Assist feature set. We were inspired by easy video viewing tools as well as documentation tools with robust templates and suggestions like Grammarly.



Defining an Approach

The app needed to reflect the new brand and color palette, and feel like a companion to the Robin App. High level design systems were developed along with key UI patterns.



Building a Design System

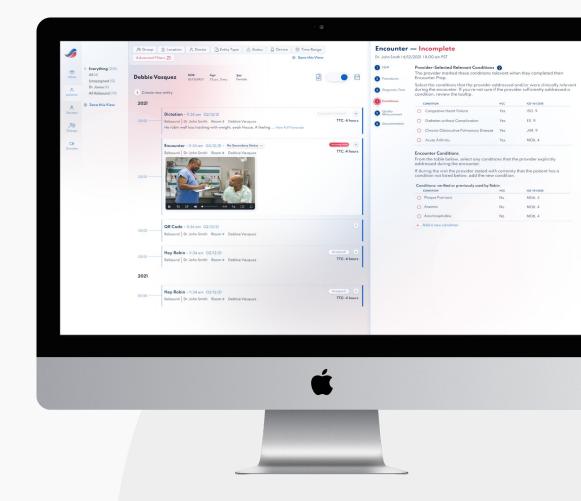
Once the aesthetic was selected, a design system was built to support the app's main elements such as forms, buttons, and menu styles.

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Robin Assist

The medical scribes needed a way to see the patient's timeline of health events, and media captured in the room while also answering critical questions for clinical and administrative purposes.

Creating this new way to navigate both the media feed and the questions improved efficiency while still providing a clear path for completing the work.





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E&M	Note Completion					
Procedures	Documentation					
Diagnostic Tests	(A)	Replace the bracketed phrases with information about the encounter.				
FFS Conditions	Subjective	7 brackets to complete				
VBC Conditions	REASON FOR VISIT: F/U for left hip pain HISTORY OF PRESENT ILLNESS Onset: 2017					
Quality Measurement	Today, the patient reports <u>left hip</u> pain. <u>She</u> describes it as occurring with activity and rates it as mild-to-severe. <u>Her</u> symptoms are <u>exacrbated</u> by walking and jumping. <u>He</u> has previously treated <u>her</u>	Note Templates				
Documentation	symptoms with NSAIDs.	-				
Post & Submit Note	The available records and medical history forms obtained in preparation for the visit were reviewed. A detailed review of systems is available in the	✓ Consistancy Tools (4)				
ark Complete	patient record and relevant findings incorporated into the history of present illness and was otherwise	Patient Name Check				
	noncontributory. Objective	Pronoun Check				
	Constitutional: NAD and appears stated age	Laterallity Check				
	Eyes: EOMI and a conjunctival <u>erthema</u> Hent: NCAT and atraumatic external <u>nose</u> and <u>ears</u> Respiratory: Non-labored breathing and no audible wheezing Caraflovascular: Extremities appear well- perfused and no visible varecosities Neurological:	Body Site Check				
	Alert and oriented Psych: Appropriate affect and cooperative <u>Skin:</u> No visible rashes and no visible masses	✓ Snippets (9)				
	The patient took approximately 9 seconds to transition from sitting to standing.	Procedure code justification: Injection				
	RIGHT HIP EXAM: No tenderness to polpation medially	Copy/Paste - HPI review				
	Assessment	 Copy/Paste - Patient acknlowledgement 				
	Right hip osteoarthritis Plan	Guidance - Imaging studies				
	The patient has long-standing hip OA awaiting a THA. The plan is to stay indoors as much as reasonably possible for the hip as well as in regards	 Guidance- Discussion of surgica risks 				
	to the coronavirus. <u>She's going to treat her pain</u> primarily with Tylenol, using Norco as needed. <u>She</u>	Guidance- HCC Documentation				
	will also continue her weight loss efforts in terms of reducing her intake of simple carbohydrates and sugar, trying to eat more of a plant-based diet. <u>She</u>	Copy/Paste - BMI				
	will continue working on some daily activity, as this is good for virus protection as well as for her general health. If her condition worsens, she will	Copy/Paste - Influenze immunization				
	call us, otherwise, we'll touch base in about 6 weeks. Hopefully by then, we'll be rescheduling surgeries, and we'll get her back on the surgery schedule.	Another Snippet type here				

Testing and Iteration

With a population of over 500 medical scribes, we were able to do weekly design interviews and surveys to ensure we were building tools that with maximize quality and efficiency.

We also provided design Q&A with scribes during production reviews to address critical bugs as well as learn from users, rapidly improving the experience with each release.

Issue 3 - Divided Section

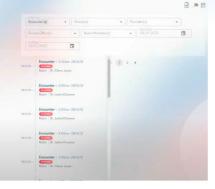
Description

The pagination component takes half of the middle section in the UI.

Impact

- Not enough horizontal space for the appointment list
- Waste space in the UI layout

Criticality Should be fixed soon



Process Encounter - Incomplete

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Description

22% of the participants had difficulty finding the CPT code location for reporting.

Impact

- Increased note completion time
- Increased scribe confusion

Criticality

There will be one final screen



Results

Decreased 20+ minutes of time spent doing documentation for medical scribes

Improved COGs by \$2 a note

45%+ improved app satisfaction by Robin virtual medical scribes





Keep exploring.

