

# VA Mobile App RX Refill/Pharmacy

Usability Findings - Round 1

### Background

VA Mobile App RX Refill Usability Findings | 6/2022

Since the launch of the Flagship Mobile App, the Mobile App team has received numerous requests from Veterans to have a prescription refill feature in the flagship app. In an effort to meet that need, we are incorporating an MVP prescription refill experience into the app. We conducted user research on a design prototype of the MVP in order to ensure we are meeting users' expectations and core needs.

#### **Research Goals**

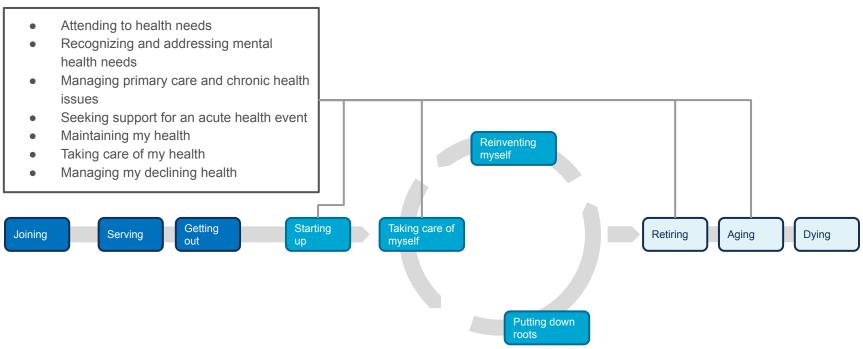
- Determine if the current concept of refilling a prescription matches Veteran's expectations and understanding
- 2. Identify major usability or content issues with the current concept of viewing prescription history and tracking prescriptions

### **Approach**

We interviewed 10 Veterans in a remote moderated usability study using a low fide Figma prototype

### How this research maps to the Veteran journey

VA Mobile App RX Refill Usability Findings | 6/2022



For a fully detailed Veteran journey, go to

 $\underline{\text{https://github.com/department-of-veterans-affairs/va.gov-team/blob/master/platform/design/va-product-journey-maps/Veteran%20Journey%20Map.pdf}$ 

Serving and separation

Living civilian life

Retiring and aging



## OCTO-DE goals that this research supports

VA Mobile App RX Refill Usability Findings | 6/2022

Supported Not supported

Veterans and their families can apply for all benefits online Veterans and their families can find a single, authoritative source of information Veterans and their families trust the security, accuracy, and relevancy of VA.gov Veterans can manage their health services online VFS teams can build and deploy high-quality products for Veterans on the Platform Logged-in Participants have a personalized experience, with relevant and time-saving features Logged-in Participants can update their personal information easily and instantly Logged-in Participants can easily track applications, claims, or appeals online

Measures to increase Completion rate of online transactions

Percent of applications submitted online (vs. paper)

Veteran satisfaction with VA.gov Benefit use and enrollment, across all business lines Benefit value (in \$) delivered from online applications or transactions Number of VA.gov Participants as a function of total Veteran population Usage of digital, self-service tools

Measures to decrease Time to successful complete and submit online transactions Time to process online applications (vs. paper) Call center volume, wait time, and time to resolution Time from online benefit discovery to benefit delivery



## **Participant Demographics**

VA Mobile App RX Refill Usability Findings | 6/2022

Findings may not include the perspectives of the following underserved Veteran groups:

- Live in rural areas or abroad
- Identify as Black, Latinx, Native
- Identify as LGBTQ+
- Of immigrant origin

We recommend studies with these underserved groups in the future.

Note: Due to uncertainty on the accessibility of the prototype tool, we could only recruit assistive tech users that use magnification/zoom or hearing aids

final # of	10			# o no sho		5		# O		4							
Category	Target	Study	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
General		n current	VA st	atisti	cs							1000000	100100				
Age 55-64+	5	7	0		NS	1	0	NS	NS	1	1	NS	NS	1	1	1	1
Cognitive Disability	5	5	0		NS	0		NS	NS	1	1	NS	NS	1	1	0	1
Mobile user	5	Θ	0		NS			NS	NS			NS	NS				
Rural	3	2	1		NS	1		NS	NS			NS	NS				
No degree	3	2	1		NS	0		NS	NS			NS	NS				1
Immigrant origin	2	Θ	0		NS			NS	NS			NS	NS				6
Women	1	2	0	1	NS			NS	NS			NS	NS		1		
Expat (living abroad)	1	Θ	0	0	NS	0	0	NS	NS	0	0	NS	NS	0	0	0	0
Race	Based o	n VA's pro	jecte	d sta	tistics												
Black	2	1	0	1	NS	0	0	NS	NS	0	0	NS	NS	0	0	0	
Latinx	2	1	0					NS	NS			NS	NS				1
Biracial	1	1	0	1				NS	NS			NS	NS				
Asian	1	1	0	1				NS	NS			NS	NS				
Native	1	Θ	0	0	NS			NS	NS			NS	NS				
LGBTQ+	LGBTQ+	Veterans	are !	5 time	s as l	ikely	to h	ave P1	SD								
Gay, lesbian, or bisexual	1	Θ	0					NS	NS		0	NS	NS				6
Transgender	1	Θ	0		NS			NS	NS			NS	NS				
Nonbinary, gender fluid, gender queer, Two-Spirit (Indigenous only), or another gender beyond man or woman	1	Θ	0	0	NS			NS	NS		0	NS	NS	0		0	Э
Assistive Tech (AT)	Ask an a	11y speci	alist 1	to hel	p you	com	olete	this.	Targe	ts ar	e for	a ger	eral .	AT st	udy.		
Beginner AT User	2	Θ	0	0	NS		0	NS	NS		0	NS	NS	0		0	0
Experienced AT User	2	Θ	0					NS	NS			NS	NS				
Desktop Screen Reader (SR)	Θ	Θ	0		NS			NS	NS			NS	NS				
Mobile Screen Reader (SR)	Θ	Θ	0		NS			NS	NS			NS	NS				
Magnification/Zoom	1	1	1					NS	NS			NS	NS				
Speech Input Tech (Siri, Dragon)	Θ	Θ	0		NS			NS	NS			NS	NS				
Hearing Aids	1	3	0			1		NS	NS		1	NS	NS		1		
Sighted keyboard	9	Θ	0			0		NS	NS		0	NS	NS		0		
Captions	Θ	Θ	0					NS	NS			NS	NS				
Switch Device	Θ	Θ	0					NS	NS			NS	NS				
Braille Reader	0	Θ	0					NS	NS			NS	NS				



# Methodology & Key Findings



### **Interview Procedure**

VA Mobile App RX Refill Usability Findings | 6/2022

#### Introduction

- Overview of session format
- Veteran's usage and experience with VA services (VA.gov, MHV, VA: Health and Benefits app)
- Experience with prescription management and prescription mental model

### **Prototype Testing**

 Guiding the user through the "VA Mobile App Pharmacy" experience to get their feedback on key interactions

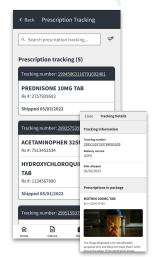
### General Takeaways

- Deep-dive into user-specific insights
- Obtain general feedback for the prototype experience











## **Key Findings - Validated Interactions**

VA Mobile App RX Refill Usability Findings | 6/2022

Participants enjoyed the clean, minimal style of the Pharmacy Landing Page

Participants liked how easy it was to find and refill their refillable prescriptions

Participants liked being able to filter and look for more detailed information as needed

"[This] is good and bold and easy to read."- P12

"I like the big refill button, because it's what I'm coming straight here to do. I like that it's at the top." - P2

"Very simple to do [filter]...It's intuitive... I'm an intuitive guy!" - P14



## **Key Findings - Insightful Learnings**

VA Mobile App RX Refill Usability Findings | 6/2022

Participants wanted more of a confirmation when submitting their refill requests

Participants wanted a place to view all of the "in process prescriptions"

Participants have a lot of faith in VA prescription shipping. They'll typically only look at tracking if something gets lost or to verify it's been shipped.

"You know what would make [this] fairly easy for me?[...]Anything that I had requested would be on that one scroll but separated into groups[...]Say something is taking a little longer, I am running low, if I could have one page that shows that list I can see if it has a tracking number or I can see where it is in the process." - P9



## **Secondary Findings**

VA Mobile App RX Refill Usability Findings | 6/2022

#### **Refill Screen**

Participants didn't understand what the "non-refillable" tab was, and why it contained a separate list of prescriptions



Participants stated they didn't need all of the metadata upfront in order to refill



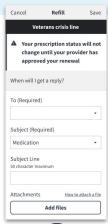
### **Tracking**

Participants thought that their tracked prescriptions were a list of active or recently submitted prescriptions



### **Secure Messaging**

Participants liked the idea of renewing through secure messaging, as well as other functions.





### Findings Unrelated to the Digital Experience

VA Mobile App RX Refill Usability Findings | 6/2022

- Shipping estimates influence users' refill behavior
  - Participants who have been refilling for a while reported observing how many days medications take to ship. They'll wait until this amount of days to request a refill.
- Some participants expressed confusion around statuses
  - 4 users verbally expressed confusion about what the statuses meant, e.g.
     "What is active:parked? Parked? I have no idea what that means." -P2
  - MHV users didn't seem to recognize all the statuses
  - 1 participant who has been using MHV for a while reported having to frequently look up status definitions
- Several participants who use MHV reported login as a pain point for them
  - There was common frustration expressed at the "3 billion ways to log in" P2



# Prototype Feedback



### **Prototype Questions & Hypothesis**

VA Mobile App RX Refill Usability Findings | 6/2022

#### **Research Questions**

- Do Veterans understand the difference between refillable and non-refillable prescriptions in the refill modal?
- Will Veterans be able to accomplish the main pharmacy tasks:
  - o Refilling a prescription?
  - Viewing their prescription history and prescription details?
  - Viewing tracking details of a prescription?
  - What high-level prescription information do Veterans need to know?

### **Hypothesis**

- Veterans will be able to accomplish the pharmacy tasks designed in the prototype, and will articulate what the refillable and non-refillable categories mean.
- Veterans will have different prescription information knowledge needs depending on their individual circumstances

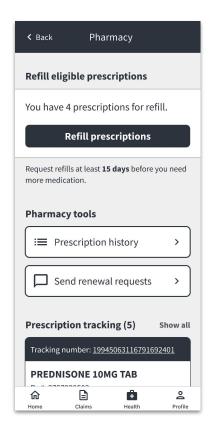
### Prototype Feedback: Pharmacy Landing Page

VA Mobile App RX Refill Usability Findings | 6/2022

#### **Observations**

- Refill is the highest priority function for all participants; they liked that this was easily
  accessible and at the top
- Participants noticed the pharmacy tool buttons after the refill button and tracking section
  - Participants who often have to request prescription renewals were excited about the "Send renewal requests" button
- Participants liked the tracking section layout but had different ideas about what this list meant
  - 5/10 participants thought this list would include other types of prescriptions, e.g. recently submitted refill requests or refillable prescriptions
  - Only 1 participant knew to use the "Show all" button to get to the Tracking List
  - 5/10 participants said they don't typically look at tracking information

- Remove the tracking section from the landing page due to confusion about the purpose, as well as low potential usage.
  - Replace this with a section or button that links to prescriptions "in progress".
- Design and build the "Renewal requests" experience
  - Almost all participants reported having to send secure messages to communicate with their providers or the pharmacy





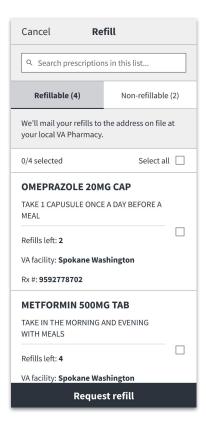
### Prototype Feedback: Refill Modal

VA Mobile App RX Refill Usability Findings | 6/2022

#### **Observations**

- 9/10 participants were able to easily select prescriptions and complete the refill request without prompting or guidance
- Participants felt there was more information here than needed in order to refill
  - No participants thought the instructions field was useful, only 1 participant found the facility name useful
- All participants were confused by the "Non-refillable" list and thought it didn't make sense on this screen. Only 2 participants ultimately understood the purpose.
- 4/10 participants verbally expressed that the snackbar was not sufficient confirmation
- 6/10 participants thought that submitted refill requests went to its own area such as the landing page, tracking list, or a section/ default filter on the Prescription History screen
- 7 users wanted to see all of their "in progress" prescriptions in a separate area or list, 4 users expected to see their recently submitted requests in the tracking list
- Participants shared that they typically go to the Refill list (on MHV and the RX refill app)
  knowing what they may want to refill. Therefore, they would not be making decisions about
  what to refill on this screen.

- **Consider removing metadata** from the Refill screen(as long as it doesn't present a patient safety issue).
- Create a "prescriptions-in-progress" list or section that includes prescriptions that have recently been submitted, are "refill in process", or are in transit to the patient (trackable)
- Remove the non-refillable tab
  - Put items that would typically go into this list in the "prescriptions-in-progress" list
- Add a confirmation screen that summarizes what the user submitted a refill request for
- Consider incorporating an auto-refill feature, primarily for long-term medications, so that Veterans don't have to worry about when they should request a refill





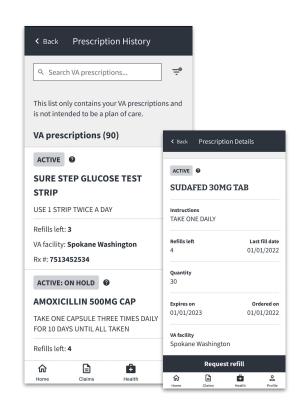
### **Prototype Feedback: Prescription History**

VA Mobile App RX Refill Usability Findings | 6/2022

#### **Observations**

- Participants understood what the prescription history screen would show but had different ideas on what information should be presented
  - 1 participant wanted to see date last filled, 2 participants mentioned wanting to see the instructions, 1 participant mentioned not finding the RX number useful
- 9/10 participants were able to easily filter the prescription history screen without prompting or guidance
- 3/10 participants wanted to see a version history (if and when a dosage changed)
- Participants reacted positively to the prescription details screen and the information presented
  - 1 participant had thoughts on the grouping of information and suggested grouping the rx number and prescription name together "for people who do use the RX number [to differentiate prescriptions]"
- 3/10 participants noticed the TTY number. 2 of the participants were confused by what it
  meant.

- Group the RX number with the prescription name so that users are able to use that information to easily distinguish between prescriptions
- Separate the phone number and TTY number from the facility information since a specific facility number isn't currently associated with prescriptions
- Consider building status update notifications to notify users when the status of their prescription has changed
- Consider incorporating history for an individual prescription so that users are able to see how that prescription has changed over time (ex. Changes in dosage, start and re-start dates)
- Consider changing the title of "Prescription History" to clarify it's content





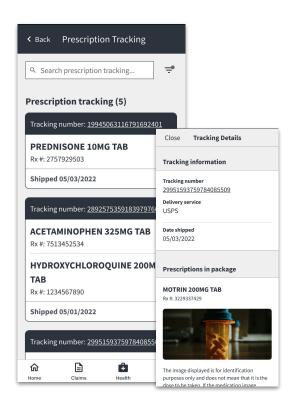
## **Prototype Feedback: Tracking**

VA Mobile App RX Refill Usability Findings | 6/2022

#### **Observations**

- Half of all participants said they don't typically look at tracking information
  - These participants stated they'll only look at tracking if their package is taking a while to arrive or to verify it's been shipped.
- 3/10 participants expected to filter the prescription history page to view tracked prescriptions; most users did not know how to get to this screen
- Participants expected that clicking the tracking number would take them to the carrier's website to view more detailed tracking information
- Participants would want to be notified that their prescriptions have been shipped and/or delivered
- Participants found the basic tracking information in the tracking details screen to be sufficient
  - When questioned, participants said they wouldn't need to see detailed information about their prescription in the tracking details screen

- Design the tracking experience in a way that fits more with its secondary nature; remove the tracking preview from the landing page
- Consider incorporating the tracking list into another list or screen
- Implement an opt-out notification system (push, email, text) to notify users when their package has been shipped and delivered
- Removing additional prescription information from the tracking details view





# Recommendations & Next Steps



### **Next steps**

### VA Mobile App RX Refill Usability Findings | 6/2022

# Step 1: User Testing Output Distill user testing output into key takeaways and design considerations.

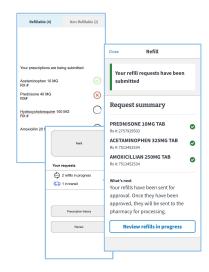


Step 2: Design Backlos
Synthesize design
considerations into
backlog items/ design tasks.

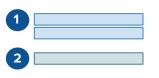


Flag dependencies and items that are quick wins vs. large operational initiatives.

Step 3 : Iterate on design concepts
Create design concepts based on priority items.



Step 4: Development
Backlog Put completed
designs in the development
backlog and work with
leadership and PO(s) to
prioritize.





## **Backlog/Recommendations**

Consider removing unnecessary metadata from the Refill list modal.

Remove additional prescription information from the tracking details view.

Incorporate the tracking list/ index into another list or screen.

Group the RX number with the prescription name.

VA Mobile App RX Refill Usability Findings | 6/2022

Tracking

Refill

General

**Tracking** 

**RX History** 

**Tracking** 

Renewal

**Notifications** 

**Notifications** 

**RX History** 

changes).

**Future State** 

The following is a compilation of the user experience opportunities that were identified due to user feedback. This list will be used to guide the design for the MVP Prescription Refill

	experience, depen	ding on technical feasibility and priority. The numbered items are the changes based on key findings, according to user value/ priority.
1	Refill	Create a "refills-in-progress" list or area for users to view their prescriptions that are: submitted, in process, on hold, or trackable.
	Defill	Add a confirmation summary coroon and the year has submitted their rafill requests. This should summarize the list of requests that were successfully submitted

Replace the tracking section on the landing page with a section or button that links to "in-progress" prescriptions.

Design and build the "Renewal requests experience": keep a button leading to this function in the homepage.

Implement status update notifications to notify users when the status of their prescription has changed.

Implement tracking notifications to notify users when their package has been shipped and delivered.

Change the concept of a non-refillable tab. Put these prescriptions in the list of prescriptions that are deemed "in-progress".

1	Refill	Create a "refills-in-progress" list or area for users to view their prescriptions that are: submitted, in process, on hold, or trackable.	

1	Refill	Create a "refills-in-progress" list or area for users to view their prescriptions that are: submitted, in process, on hold, or trackable.
2	Pofill	Add a confirmation summary serson once the user has submitted their refill requests. This should summarize the list of requests that were successfully submitted

Refill	Create a "refills-in-progress" list or area for users to view their prescriptions that are: submitted, in process, on hold, or trackable.
Pofill	Add a confirmation summary screen once the user has submitted their refill requests. This should summarize the list of requests that were successfully submitted

Consider incorporating a "history view" for prescriptions of the same medication, so that users are able to see how that prescription has changed over time (e.g. dosage

	Refill	Create a "refills-in-progress" list or area for users to view their prescriptions that are: submitted, in process, on hold, or trackable.
2	Refill	Add a confirmation summary screen once the user has submitted their refill requests. This should summarize the list of requests that were successfully submitted.

## Thanks!

Questions?

Esther Kitavi esther@digitalfoundry.com

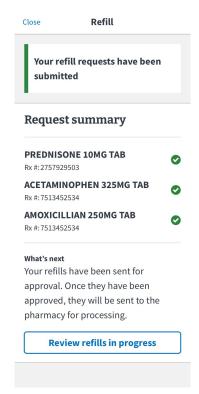
**Brenda Rocha** brenda@digitalfoundry.com

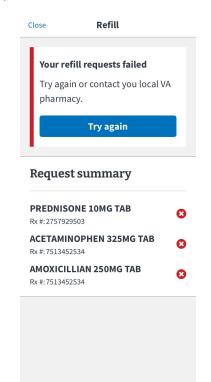
# Appendix

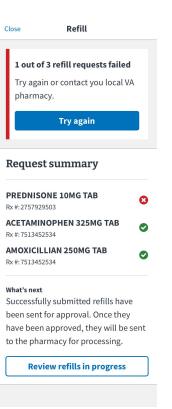


### **Work in Progress Design Concepts**

VA Mobile App RX Refill Usability Findings | 6/2022









### **MVP**

VA Mobile App RX Refill Usability Findings | 6/2022

**Landing Page** 

Request a refill

View VA prescriptions

Track prescriptions

Request a renewal (SM)

Post-MVP Start definition following MVP definition and design

#### **Status as of 6/24/22**

Backend: Complete



Frontend: In progress



- Refill request
- Track prescriptions

**Design**: In progress



- Refinements based on research output



### **Materials**

VA Mobile App RX Refill Usability Findings | 6/2022

These materials and others may be found on the <u>VA Mobile App Github</u>.

