VA Mobile, core team

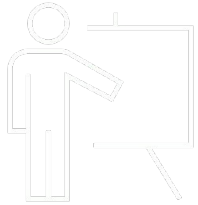
How Stuff Works

(As of March 2025)

VA | U.S. Department of Veterans Affairs

Agenda

1. Overview of the systems and architecture.



2. Overview of stuff in the app works.

2

App code

The App

- Where the public code lives (va-mobile-app)
- Where the private code lives (va-mobile-app-private)
- Core permissions groups & code owners
  - flagship-mobile-team
  - flagship-mobile-reviewers
  - flagship-mobile-qa
  - flagship-mobile-write / admin
  - flagship-mobile-release-approvers
  - mobile-api-team
- Tech Stack
  - React Native (app)
  - Detox (End to end Tests)
  - React Testing Library (Unit Tests)
  - Github Actions (CI)
- Testing
  - TestFlight (iOS) & App Tester (Android)

The API

- Why does our API exist?
  - Upstream services
  - Cookies vs. Bearer Tokens
- Where the app code lives (vets-api)
- Permissions groups & code owners
  - mobile-api-team
- Tech Stack
  - Ruby on Rails
  - Github Actions (CI)
  - Jenkins (CD)

Documentation

The App

- App documentation
- Design Library documentation
- Design System documentation
- Team-level documentation storage
- How to update docs
  - Codespaces (repo)
  - Inline (team)

The API

- API Documentation

Infrastructure and automation

Access actually need to do work

- VA Github Org
- Mobile repo write access
- Firebase
- App Store Connect
- TestFlight / App Tester

Other maybe access

- Figma / Mural
- Google Analytics
- DataDog (API monitors)
- AWS
- Google Play
- Sentry (logging)
- Slack App (Slack alerts)
- Domo (data visualization)
- Google Cloud (service accounts)
- Big Query (Data Storage)
- PagerDuty
- SOCKS Proxy
- mobile repo admin
- TestRail

App Certs that need to be maintained yearly

- iOS Distribution cert (Feb.)
- iOS Development cert (Feb.)
- iOS Push Notifications cert (TBD)

Information on how to renew certificates

Ongoing things

- Continuous integration in pull requests
- Daily QA builds
- Daily Detox test runs (iOS/Android)
- Daily accessibility tests
- On-demand builds
- Firebase Crashlytics
- DataDog API monitors
- The release (next slide)

The Release

The App

- Every 2 weeks (Release Calendar)
  - Why?
  - Not subject to platform code freezes
- Slack app
  - #va-mobile-app
  - #va-mobile-app-alerts (DataDog)
  - #va-build-alerts (CI)

The API

- Released daily in the afternoon
- Subject to platform code freezes

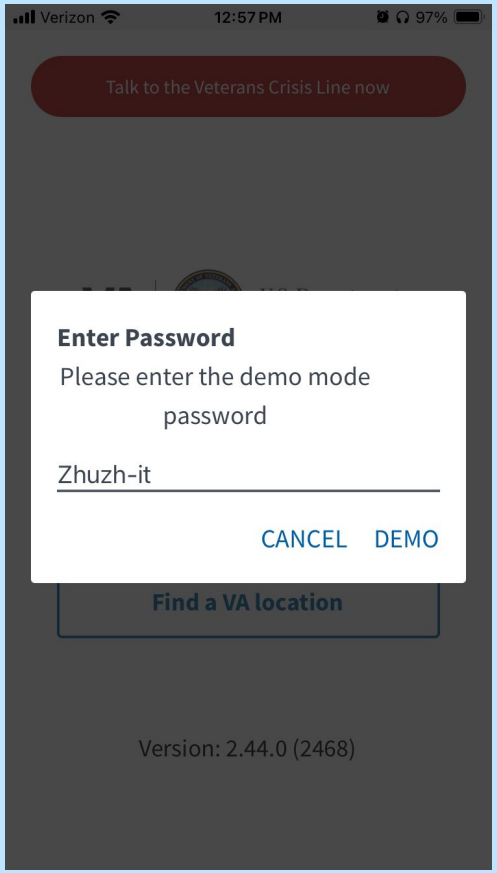
App Release Process

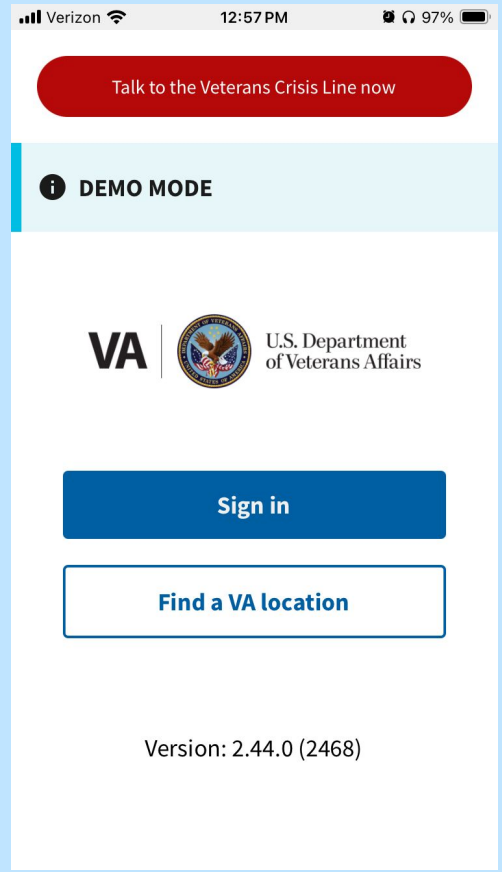
- Release process docs
- Release issue example
- All workflows

App Features and Core Functionality

What is Demo Mode?

- The VA Health and Benefit App's Demo Mode mode provides a safe and non-production environment for users to interact and engage with the app's navigation, functionality, features, and designs.
- Demo mode is set up with a single fake user that is not tied to any production test account and allows users to access all of the app's latest offerings. Users can complete actions such as submitting a secure message or a prescription refill to experience the entire user journey without impacting other systems or teams.
- To access: Download the app from the app store and click the VA Logo 7 times. When prompted for the password type in 'Zhuzh-it' and click 'DEMO'. Success is indicated by the Demo Mode informational alert banner in SS#2. Clicking sign in with skip authentication and give you access to the demo mode app space.





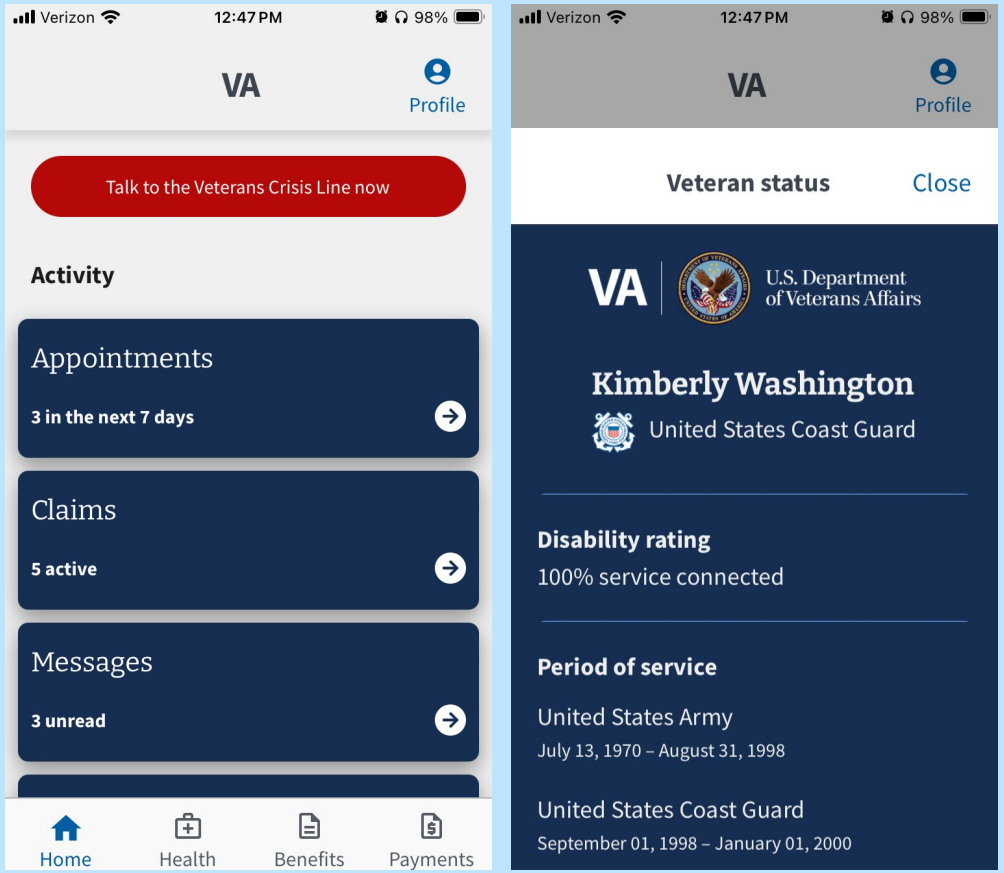
Feature Spotlights: HSP + Veteran Status Card

HSP (Homescreen Personalization)

- Objective: We believe that bringing personalized content to the VA mobile app's home screen to new and current app users will help users to keep up with and manage their current interactions across VA and find value in the app that they aren't discovering now.
  - Moved actionable items first and foremost in the app on the homescreen displaying relevant information on 'ActivityButtons' to jump users to their potential actions.
  - Preloaded significant amounts of app information on initial load to increase traversal speed of the app afterwards.
  - Significantly improved homescreen aesthetics.
  - Coincided with switch to React-Query state management.

VSC (Veteran Status Card)

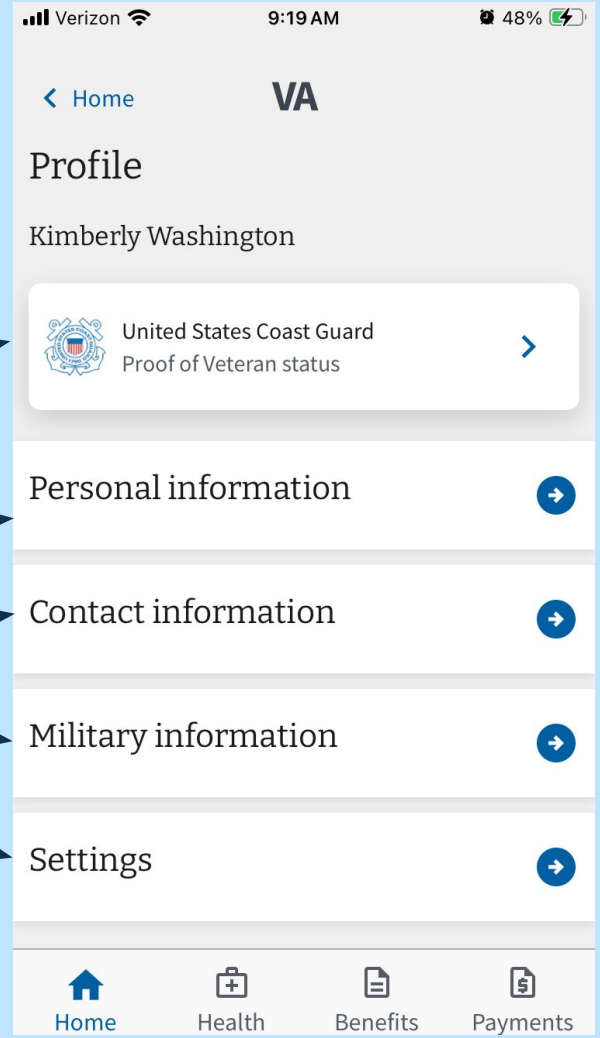
- Objective: Veterans would benefit from an easy-to-access official Veteran ID card to use for receiving discounts and other private-sector benefits. There is currently no simple way to attain an ID like this. The current processes are cumbersome and long and not well known by Veterans. A widely accepted Veteran ID within the mobile app could prove a very useful feature for Veterans and greatly increase usage of the app.

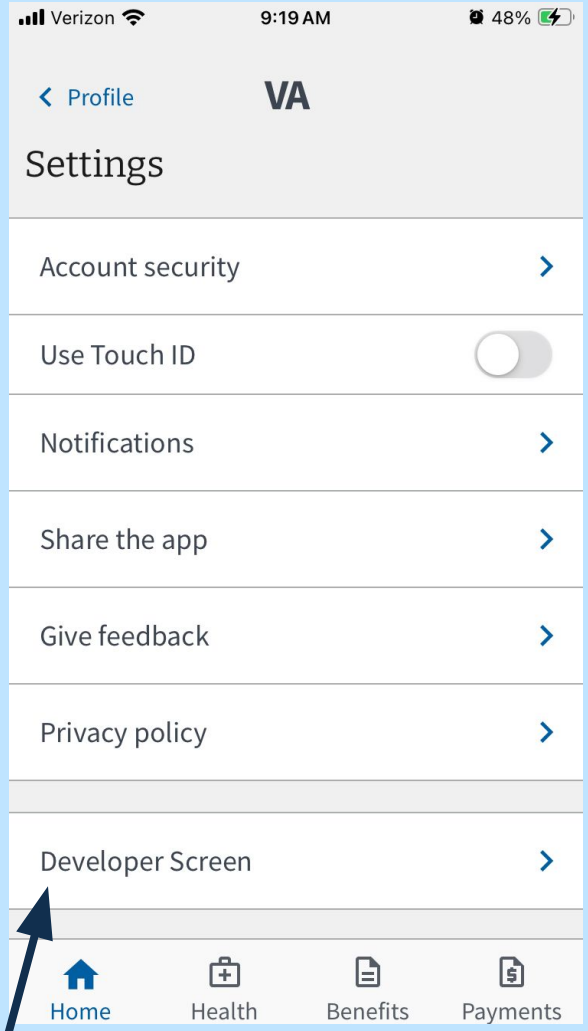


Profile Screen Contents

1. Secondary link to view Veteran Status Card
2. Personal Information page – Preferred Name EE/DOB display
3. Contact Information page – Mailing/Home Address, Phone #'s, Email
4. Military Information page – Display only, shows period of service.
5. Settings – Access to Touch ID/Notifications/App Sharing/Privacy Policy/an opt in for User Research Participation. Developer screen!

Developer screen is ONLY available in Demo Mode.





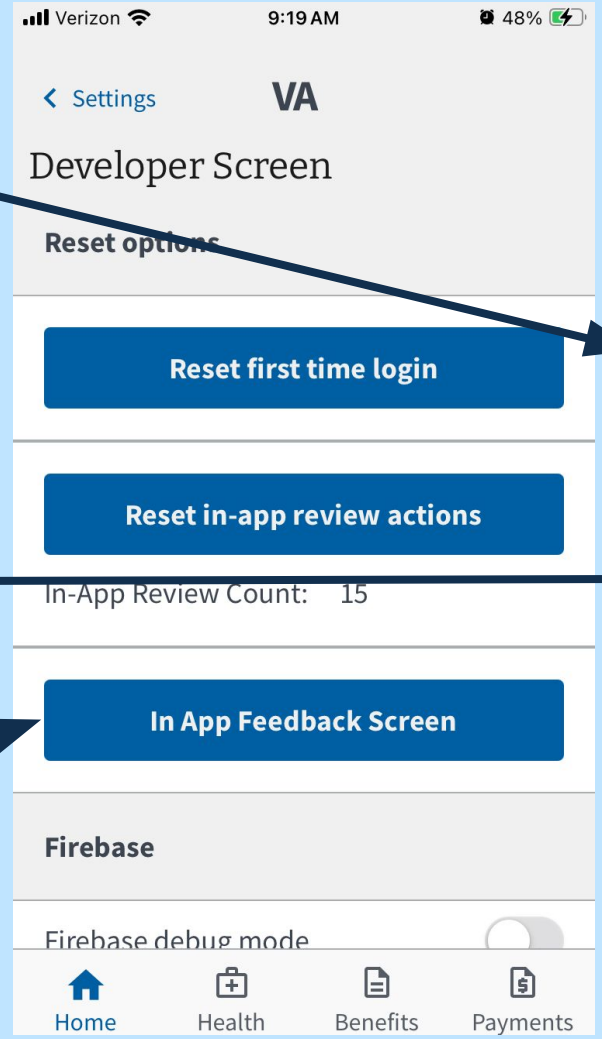
Developer Screen Contents + Functionality

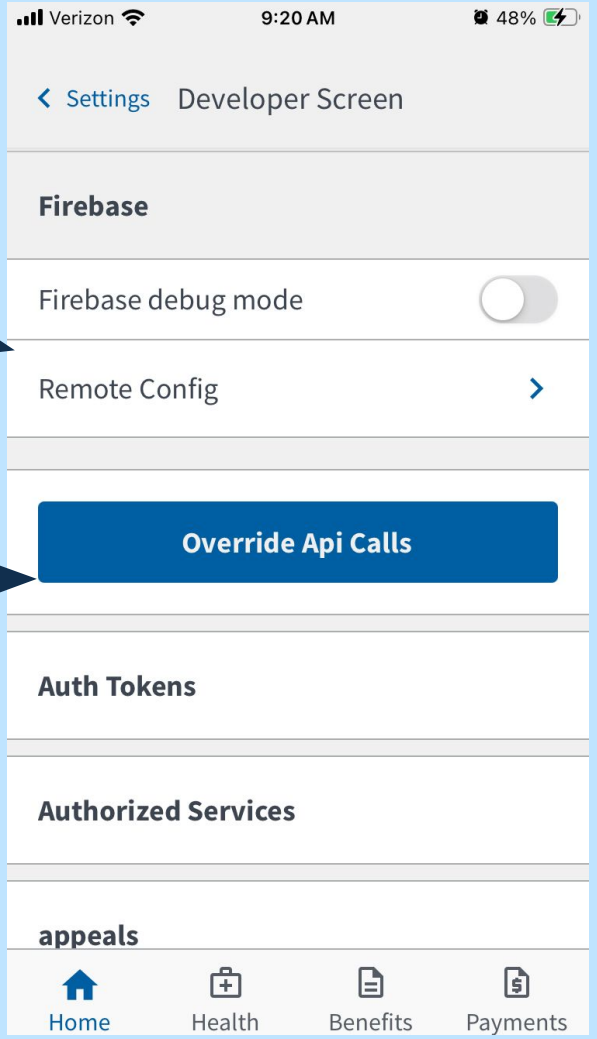
Remote Config and Waygate/AF setup (More on next slide)

Override Api Calls:

This section will allow you to override the demo mode default api responses and replace them with either a network error, backend override (BE Availability Framework), or other error codes you can supply. This is an attempt to create a simplified way for UX, FE, and QA to see various error/edge cases in UI to ensure their accuracy during development and QA.

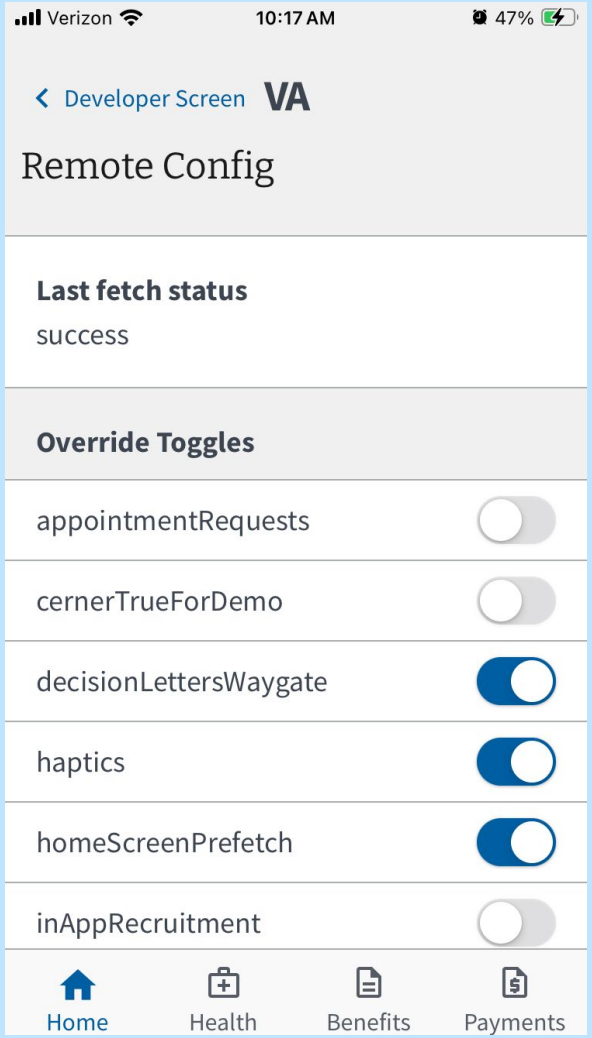
In App Feedback Screen click-to-see

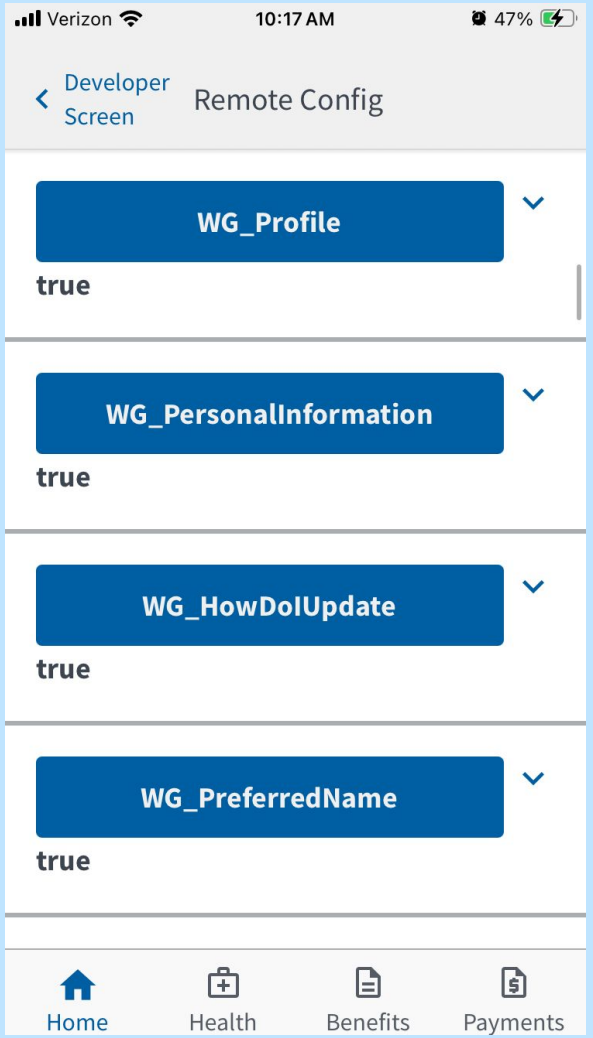




Remote Config and Availability Framework

Remote config is how we can store in progress work in the mobile app, or disable a feature entirely on short notice if we need to. These override toggles exist to flip on/off the functionality in combination with ‘Apply Overrides’ button at the bottom of the list.

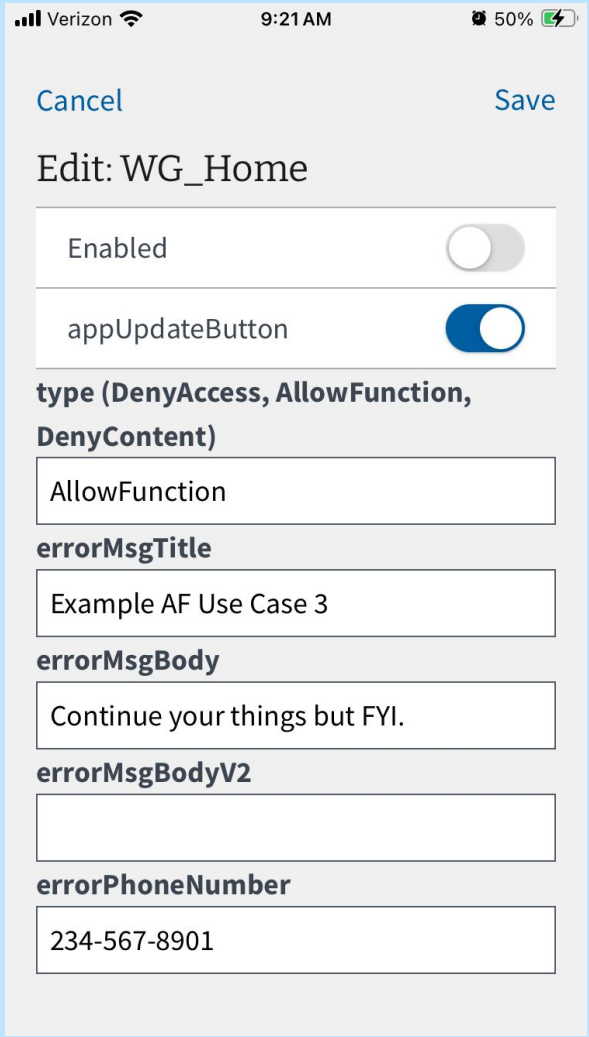


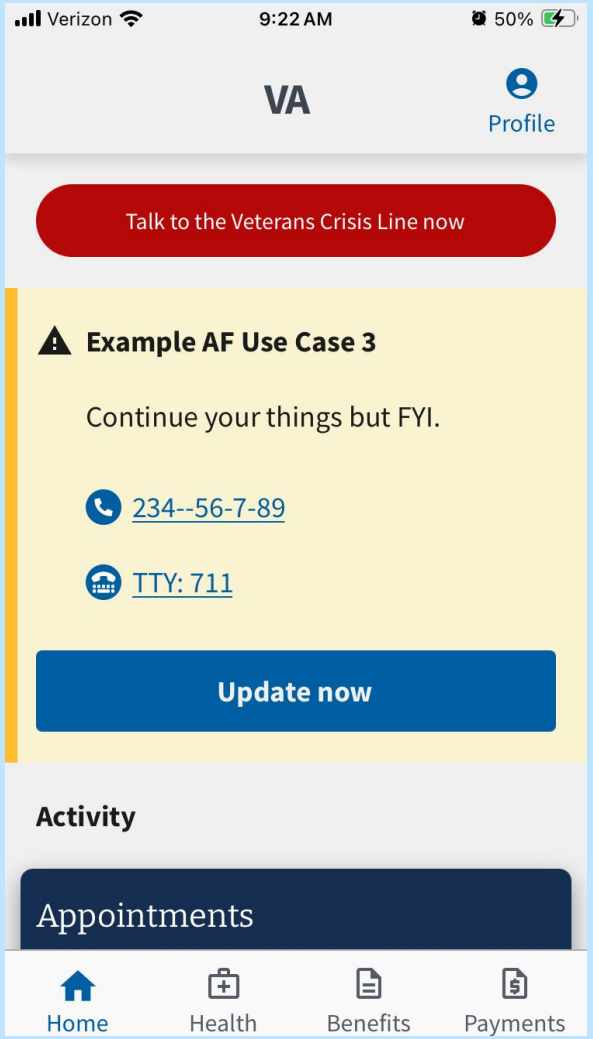


Availability Framework Allow Function Example

Availability Framework/Waygates are how we can interact with every screen in the application to potentially provide a hard stop or alert for users that something is/could be going wrong in their session. This is for emergency situations where we don't have a more valid response capability. There are 3 use cases:

- **DenyAccess:** A native Alert stops the user from navigating to the screen.
- **AllowFunction:** Nothing on the screen changes except there is an alertbox with supplied details at the top. Yellow colored bar.
- **DenyContent:** The screen loads but its contents are completely replaced by the given alertbox information. Red colored bar.

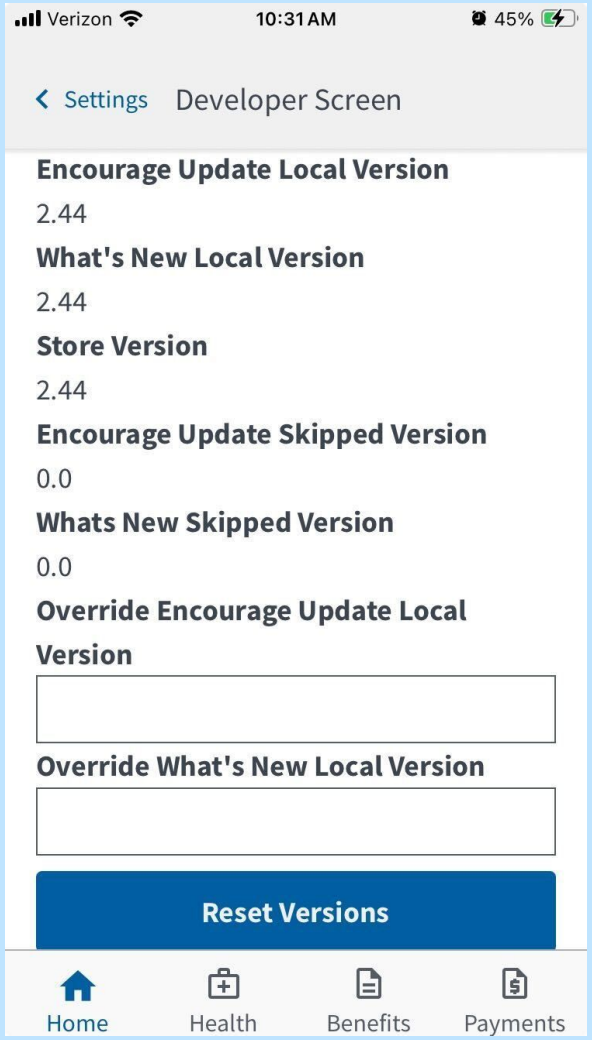


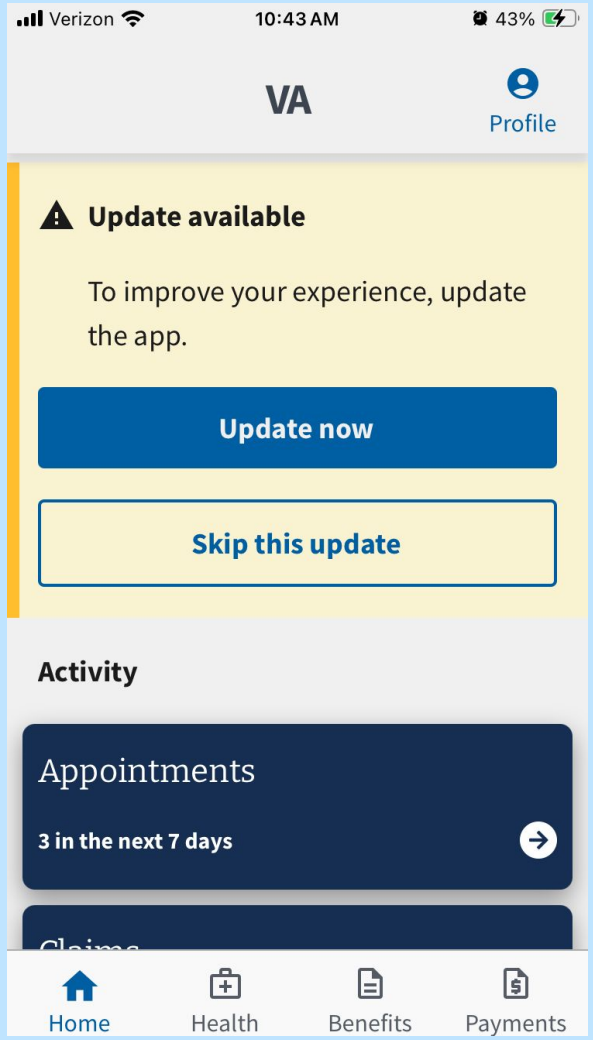


Encouraged Update

The desired outcome of this feature will be that Users update the app prior to any auto-update they may have enabled, and potentially new users to the app (after this feature is implemented) who don't enable auto-updates will also update the app upon seeing the alert. Over a long period of time, those users who continue to be on old APIs will taper off as they decide in their own time to update the app.

Encouraged Update Example

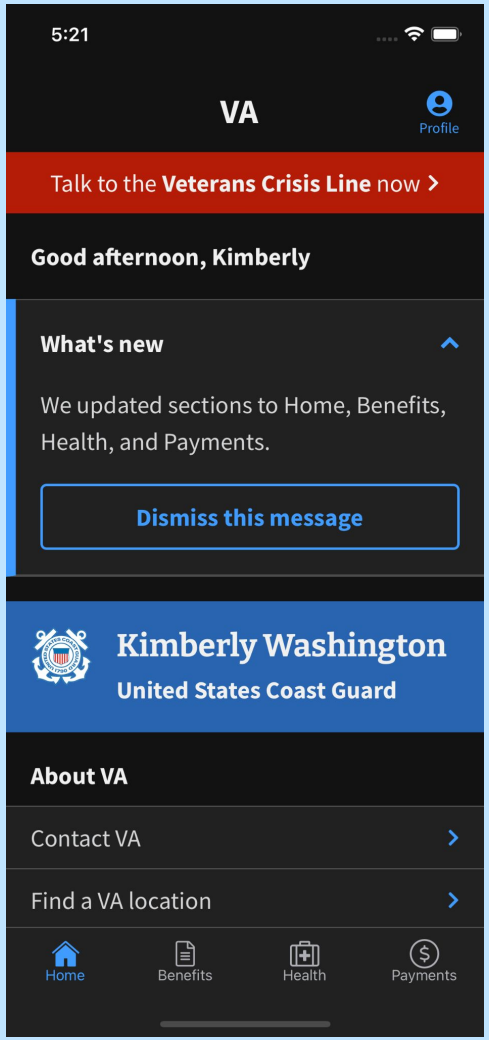


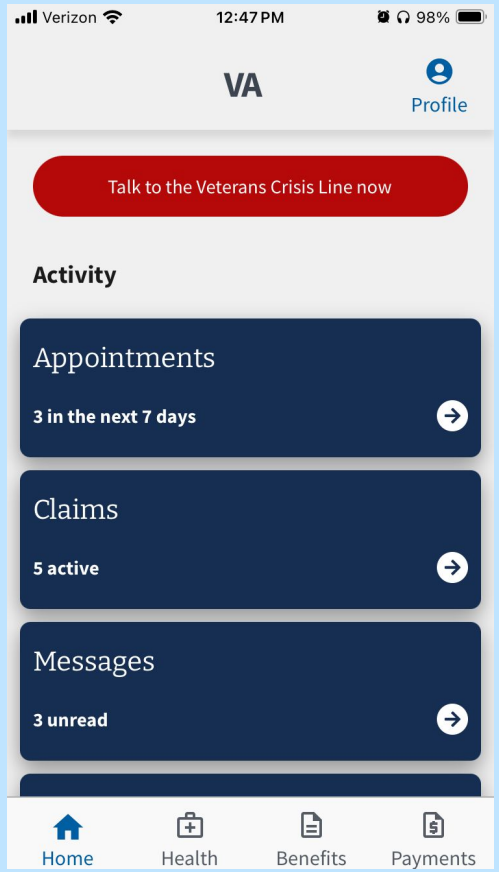


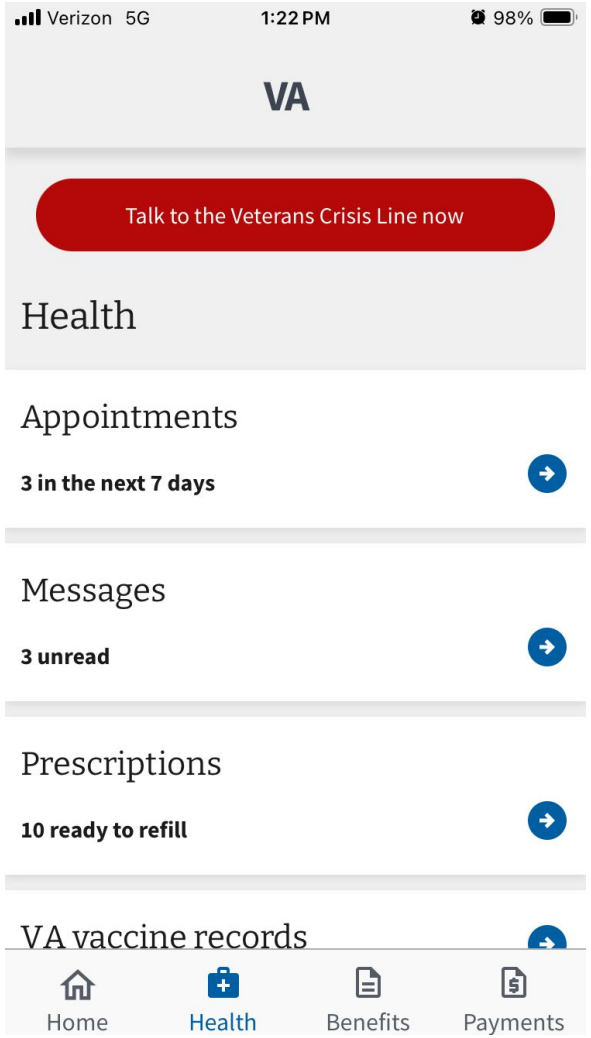
In App ‘What’s New’

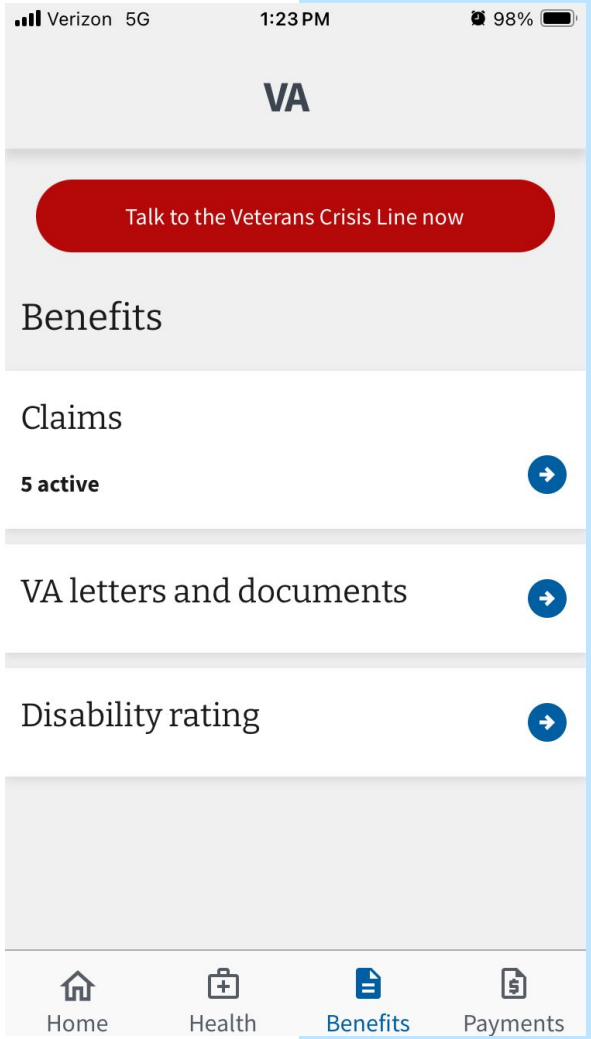
In App What’s New is a way to announce to users the newly available features in a given taken update. Can include bulleted lists and be dismissed easily by a user.

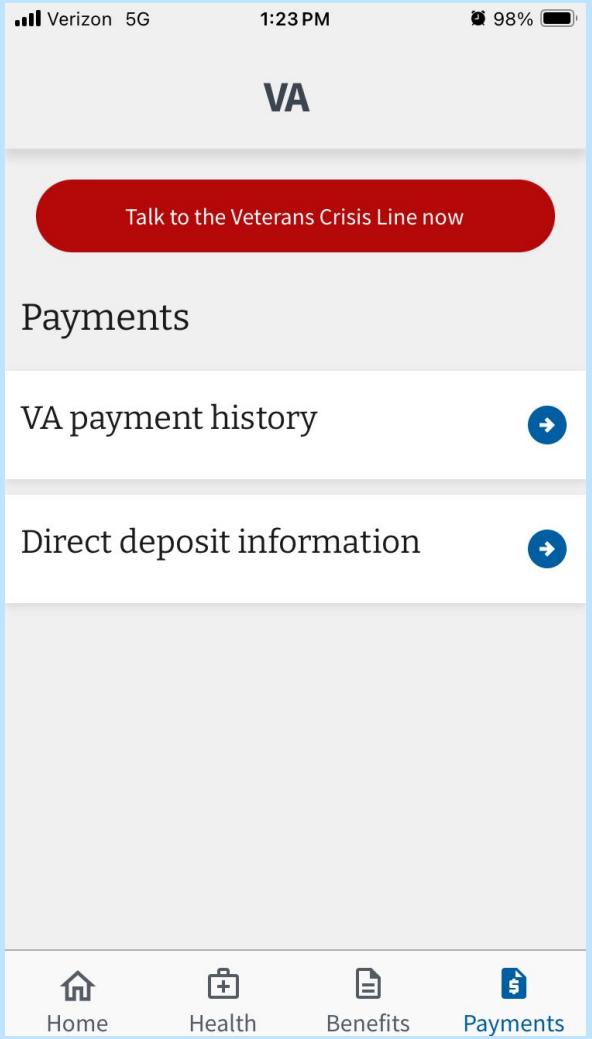
What’s New Example






Verizon 5G
1:22 PM
98%
VA
Talk to the Veterans Crisis Line now
Health
Appointments
3 in the next 7 days
Messages
3 unread
Prescriptions
10 ready to refill
VA vaccine records
Home
Health
Benefits
Payments


Verizon 5G
1:23 PM
98%
VA
Talk to the Veterans Crisis Line now
Benefits
Claims
5 active
VA letters and documents
Disability rating
Home
Health
Benefits
Payments


Verizon 5G
1:23 PM
98%
VA
Talk to the Veterans Crisis Line now
Payments
VA payment history
Direct deposit information
Home
Health
Benefits
Payments

VA Mobile, core team

Questions?