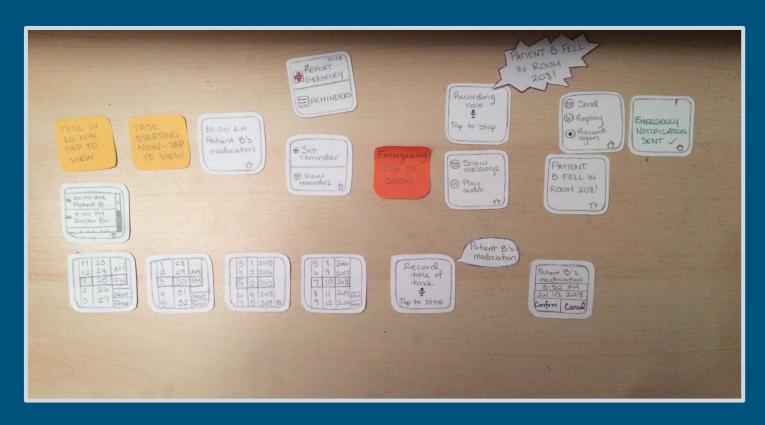
NurseWatch

Isidora Vukosav - storyboarder/writer John Abercrombie - writer/designer Anupam Gupta - user researcher/designer

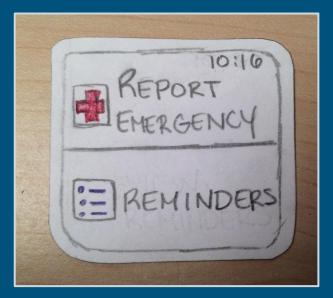
Overview

- "So understaffed they may be endangering patients' welfare" *
- Average of 0.86 hours a day per patient**
- Important to accurately remember patient information
- Challenge to respond to emergency and notify others

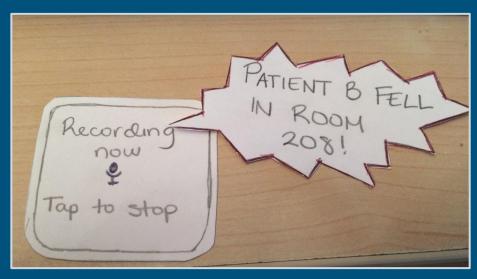
Initial Paper Prototype



Task 1: report/send emergency notification



Home screen

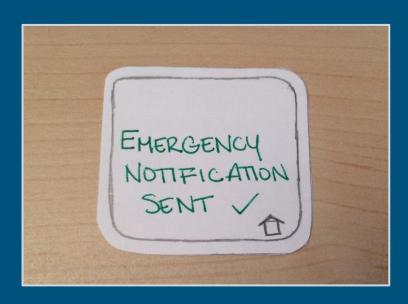


Recording title of emergency

Task 1: report/send emergency notification



Options for emergency message



Confirmation screen

Task 1: receive emergency notification







Emergency notification

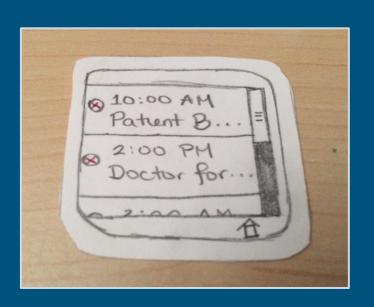
Play recording

Message text

Task 2: reminders for time sensitive tasks

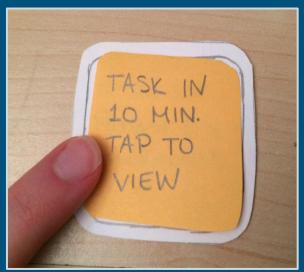


Reminders home screen

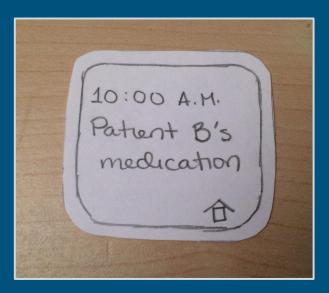


Reminder list

Task 2: reminders for time sensitive tasks





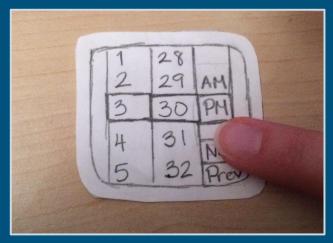


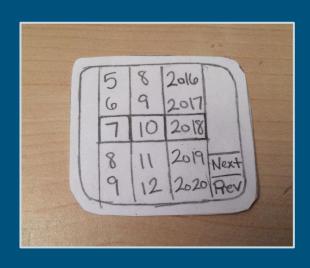
Task reminder 1 Task reminder 2

Task reminder message

Task 2: setting reminders for time sensitive tasks







Reminders home screen

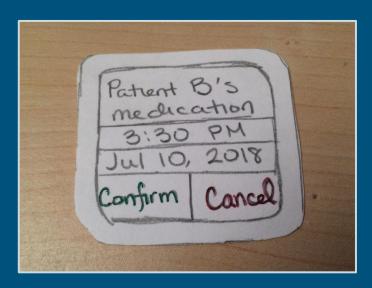
Selecting reminder time

Selecting reminder date

Task 2: setting reminders for time sensitive tasks



Recording task title



Confirm or cancel reminder

Heuristic Evaluation Issues

Voice activation inconsistencies

Notify nurse after emergency

Flexibility for notification times

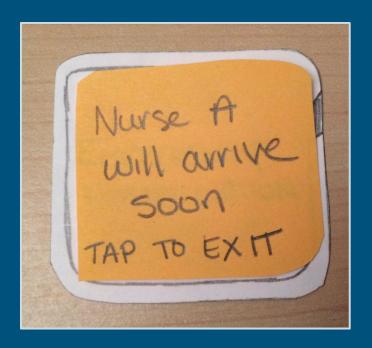
Fix for Voice Activation Inconsistency



More voice activation steps available

Fix for Notify Nurse after Emergency

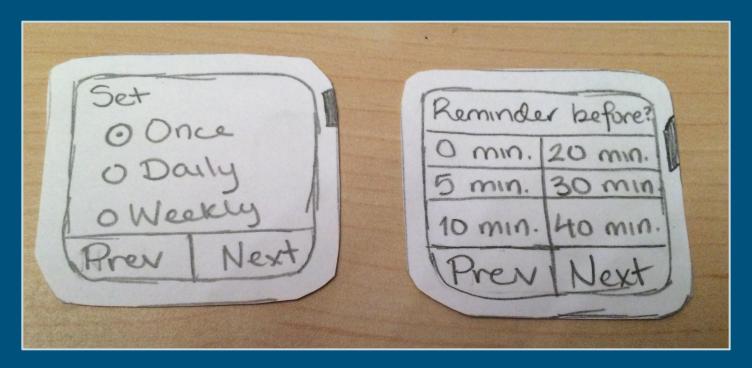




Screen with button to notify nurse

Notification of help

Fix for Flexibility for Notification Times



More options for setting a reminder

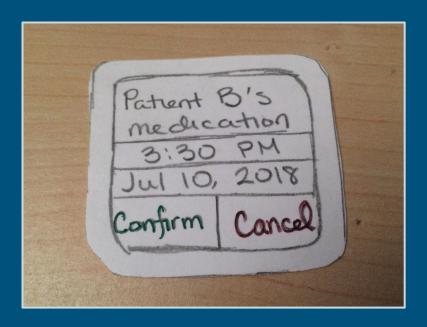
Usability Test Issues

Edit recording

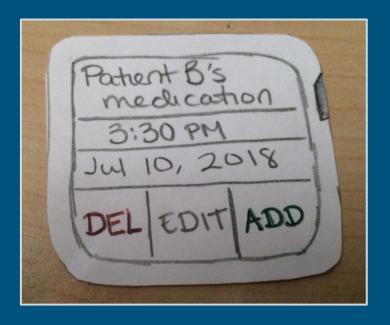
More options for reminders

Mark task as complete

Fix for Editing Recording

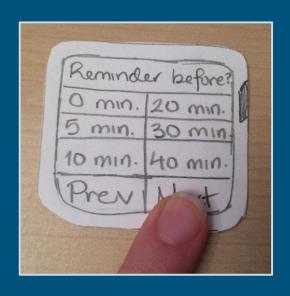


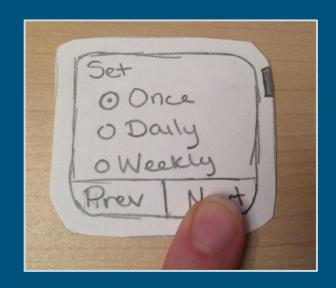
Old screen allowing confirmation or canceling

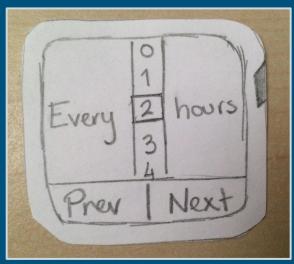


New screen allowing editing and deleting

Fix for More Options for Reminders





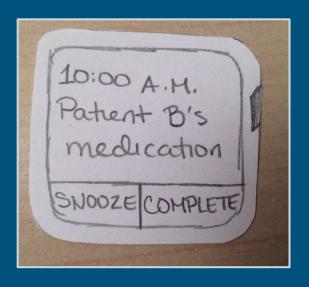


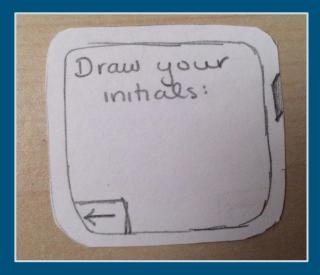
Option 1 for reminder times

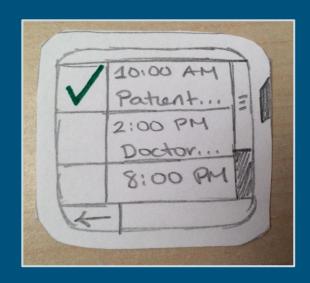
Option 2 for reminder times

Option 3 for reminder times

Fix for Marking Task as Complete





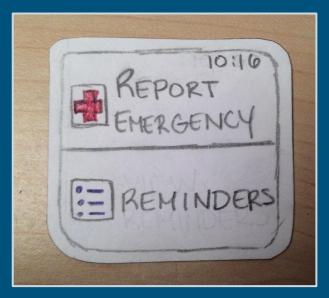


Reminder of task

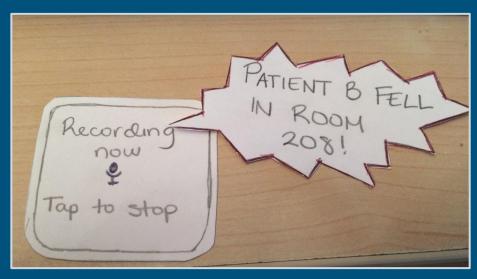
Screen prompt for initials

Reminder marked as completed

Final Paper Prototype: report + send emergency notification



Home screen



Recording title of emergency

Final Paper Prototype: report + send emergency notification



Options for emergency message



Confirmation screen

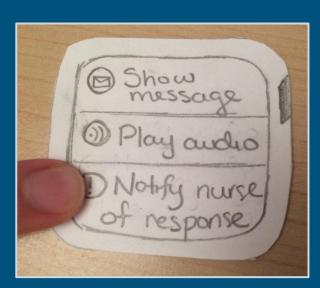
Final Paper Prototype: report + send emergency notification



Emergency notification



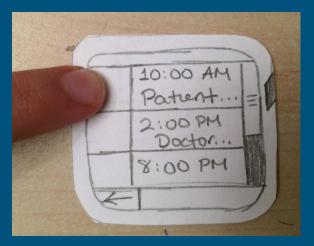
Message text



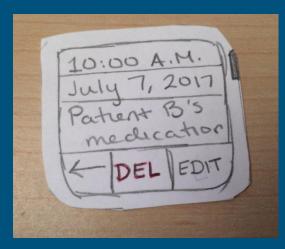
Option to notify nurse



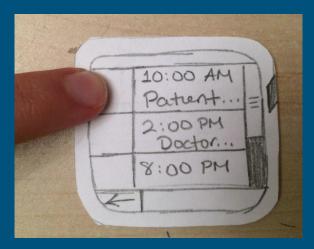
Reminders home screen



Reminder list



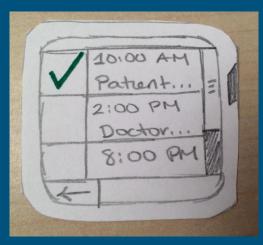
Viewing reminder in detail



Marking a reminder as complete



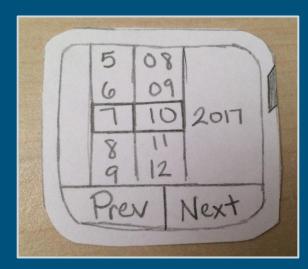
Drawing initials



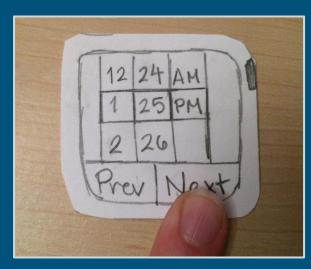
Reminder marked as complete



Reminders home screen



Selecting date



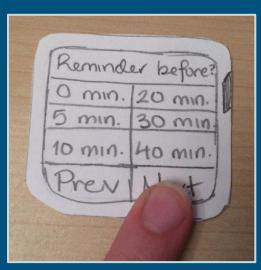
Selecting time



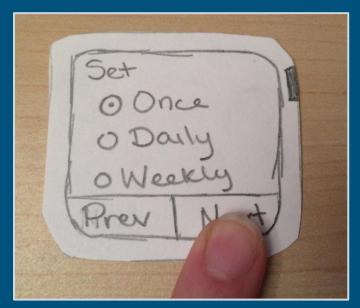
Tap to record task



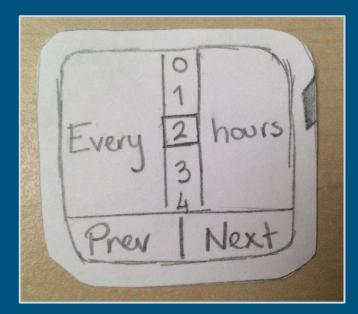
Tap to stop recording task



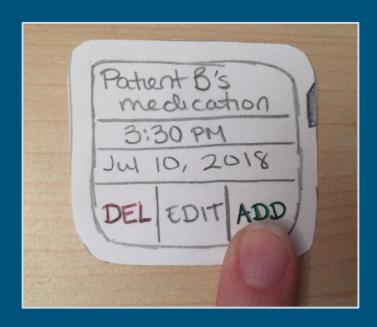
Select initial reminder time



Select reminder occurrence



Select reminder repetition



Select reminder occurrence



Reminder confirmation screen







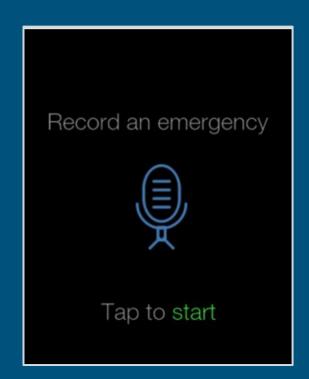
Initial task reminder

Final task reminder

View task reminder

Digital Mockup: report/send emergency

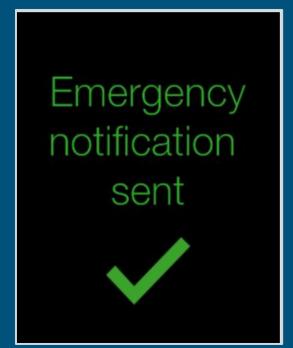






Digital Mockup: report/send emergency





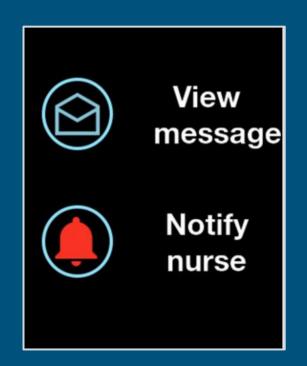
Nurse A will arrive soon

Tap to exit

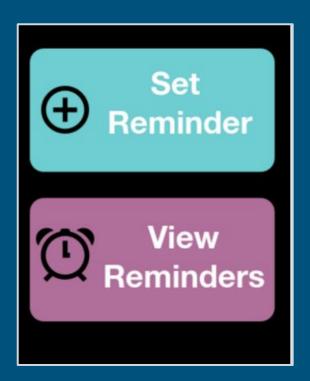
Digital Mockup: report/send emergency

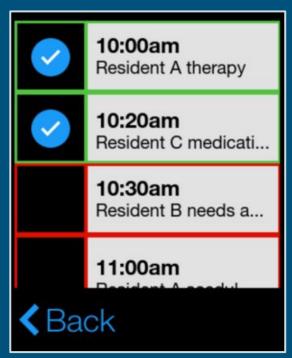
Emergency reported

Tap to show

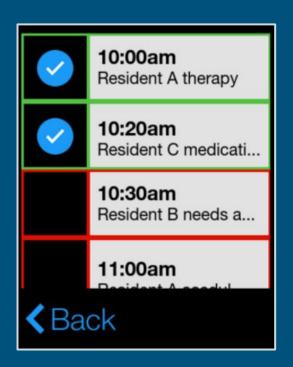






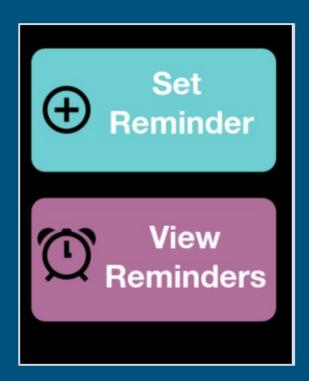


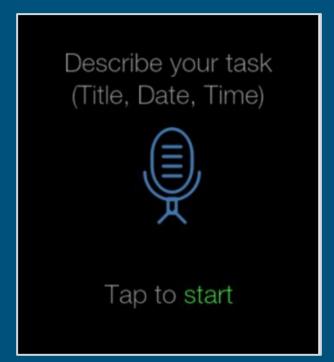




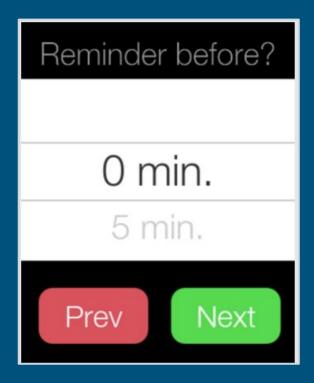


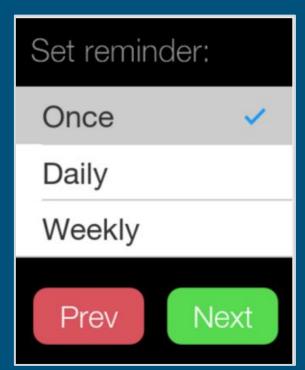


















Task in 10 minutes

Tap to view

Task starting now

Tap to view



Summary

- First prototype often lacks functionality and UI
- Users often see what designers initially miss
- Different users discover different issues
- Design is an iterative process