

Elder Careconnection

Amber Amin | Design
Laura McFarlane | Group Manager
Tiffany Lin | Documentation
Ty Overby | Fieldwork and Testing

Problem



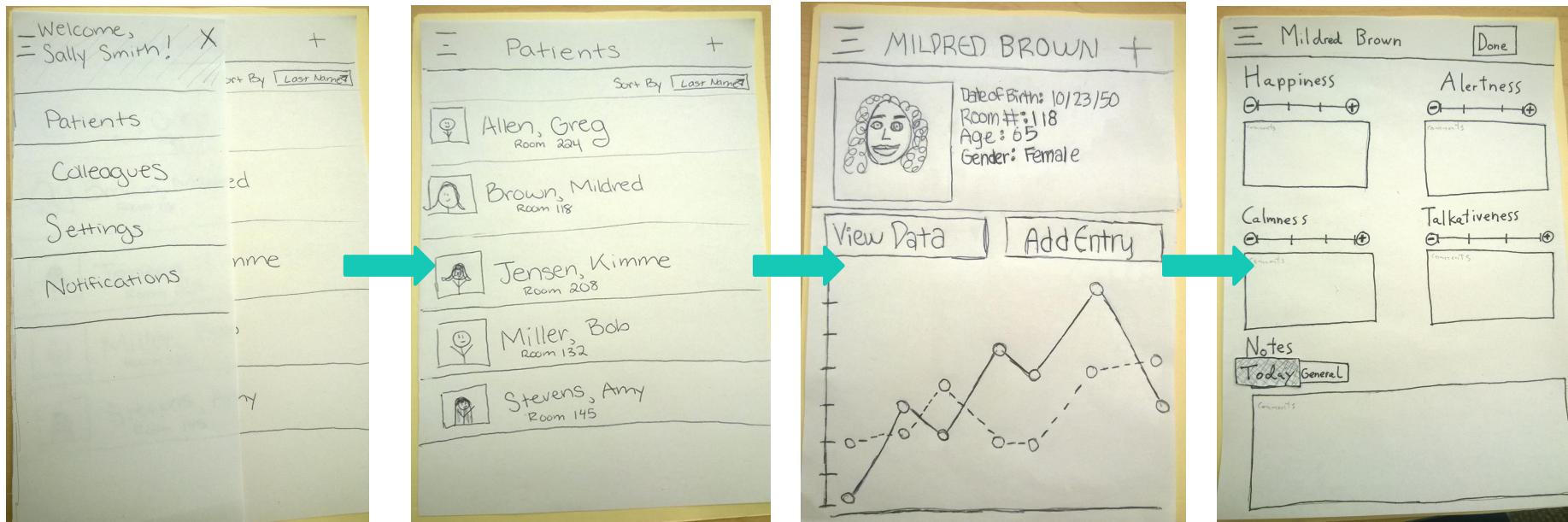
Mildred

Sally

Initial Paper Prototype

Goal: Track Mood/Comfort Levels

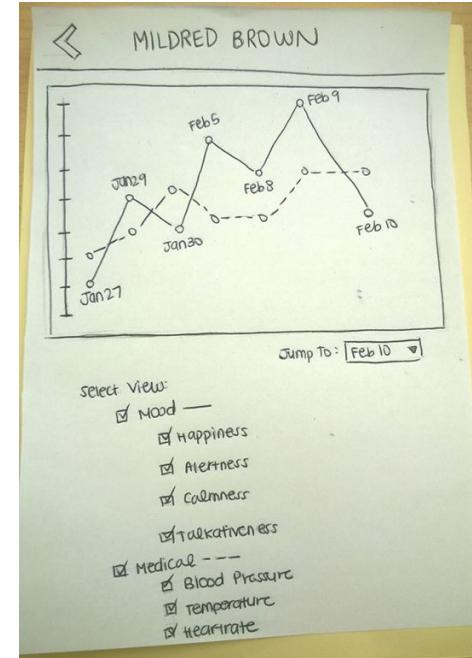
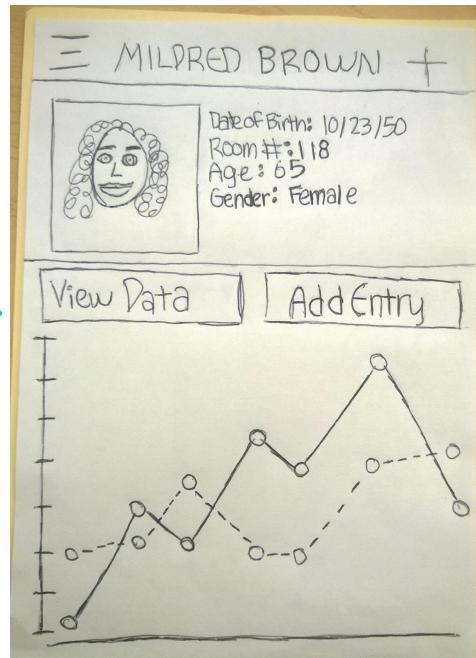
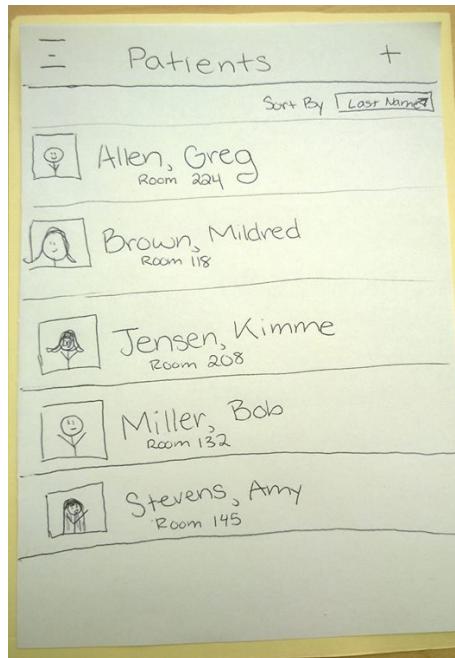
Task 1: Insert new record



Initial Paper Prototype

Goal: Communication between Caretakers

Task 2: View patient's past data



Testing Participants

Brooke

*Political Science
student*

unbiased user

Youn

caretaker

*previous Contextual
Inquiry participant*

Brian

HCDE student

*familiar with usability
tests & paper
prototyping*

Testing Process

Introduced our product, set up scenario and asked testers to perform tasks.

Method:

think-aloud

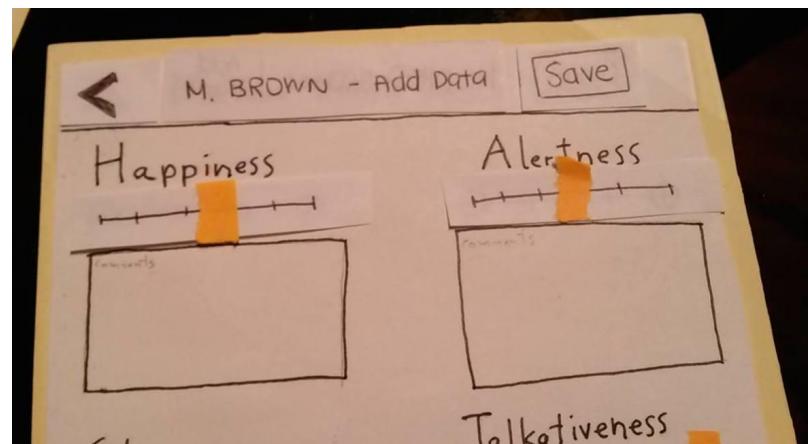
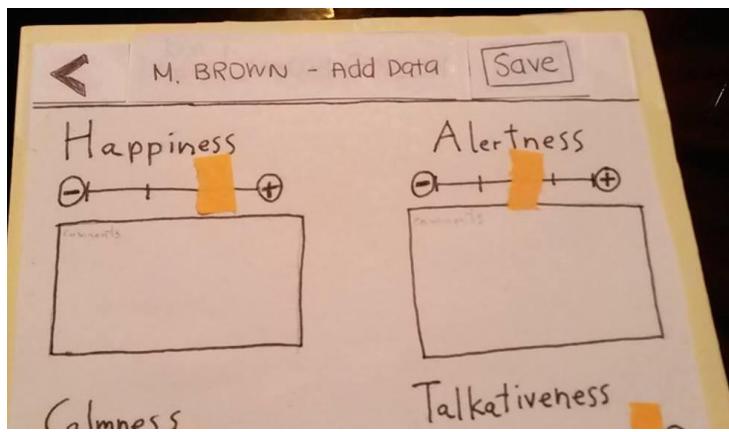
computer/conductor & observer

Feedback:

Participant	Clarity	Quickness	Likeability	Ease of Use
#1 - Brooke	3	5	5	4
#2 - Youn	4	-	5	3
#3 - Brian	5	5	5	5

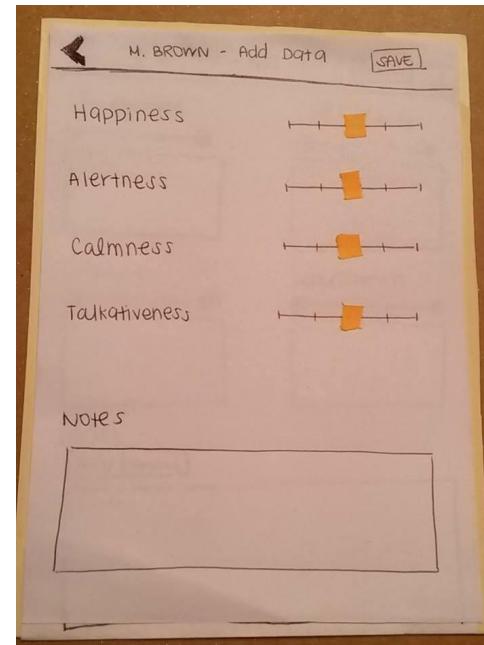
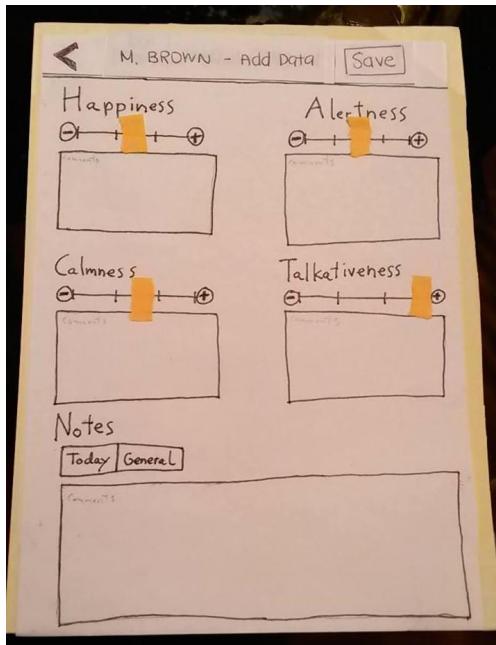
Testing Results

Affordance



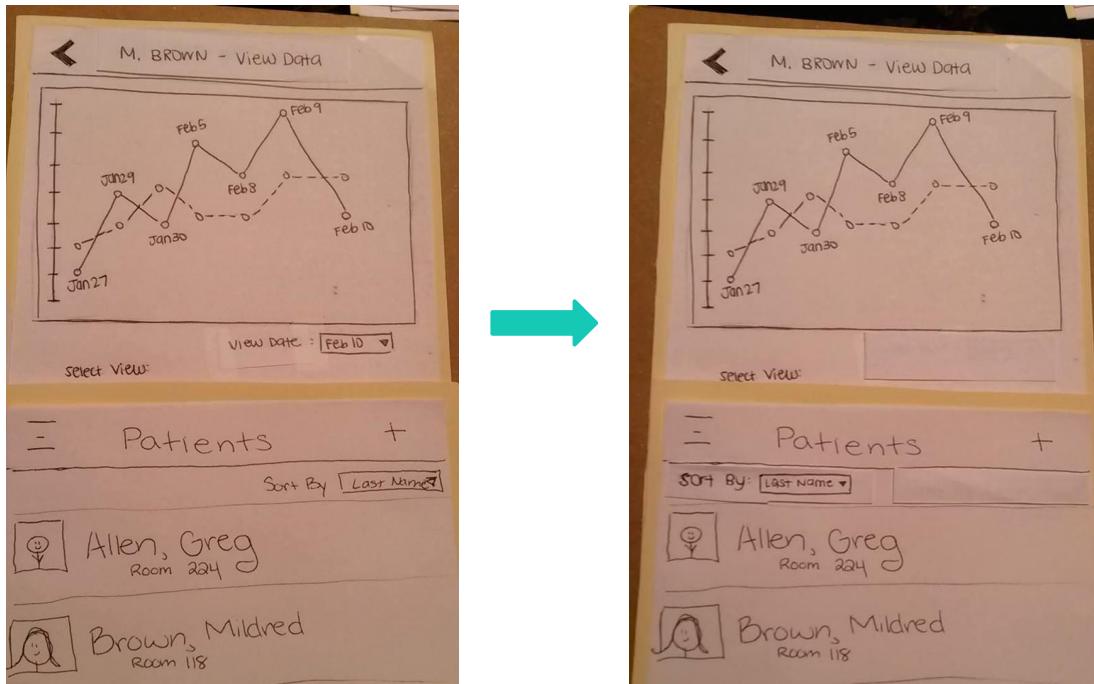
Testing Results

Minimalist design



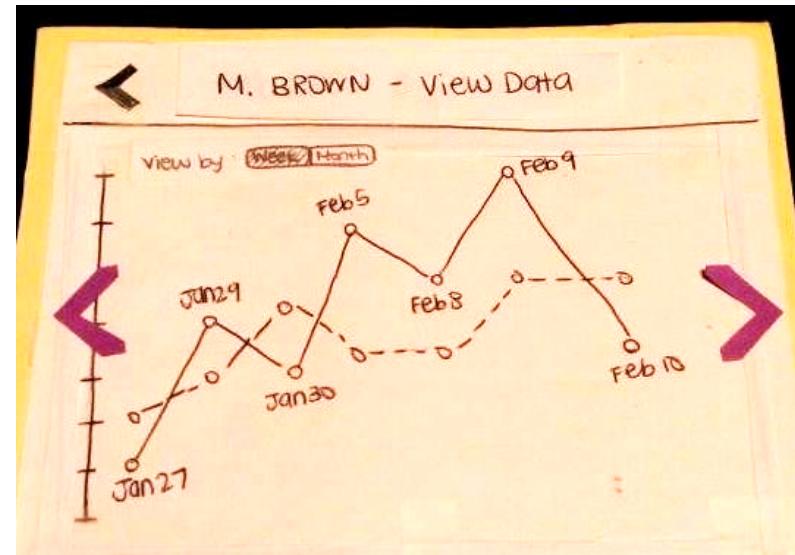
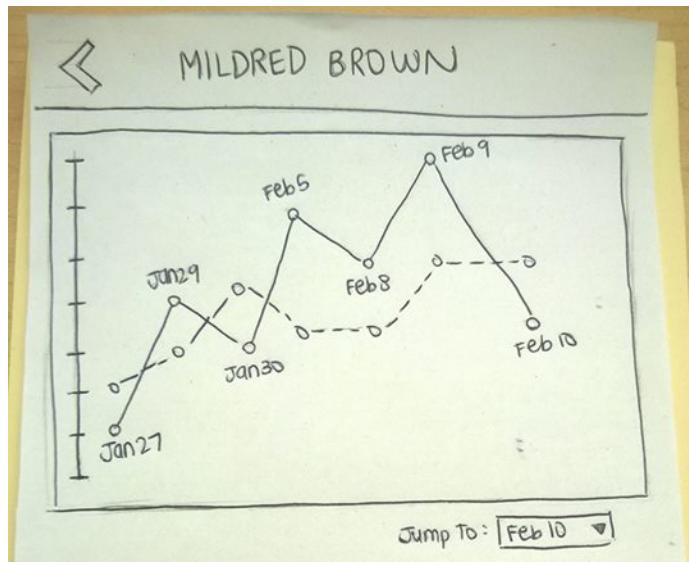
Testing Results

Recognition rather than recall



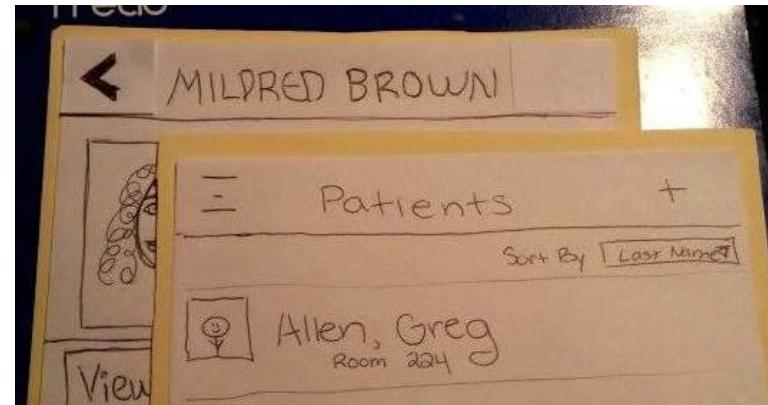
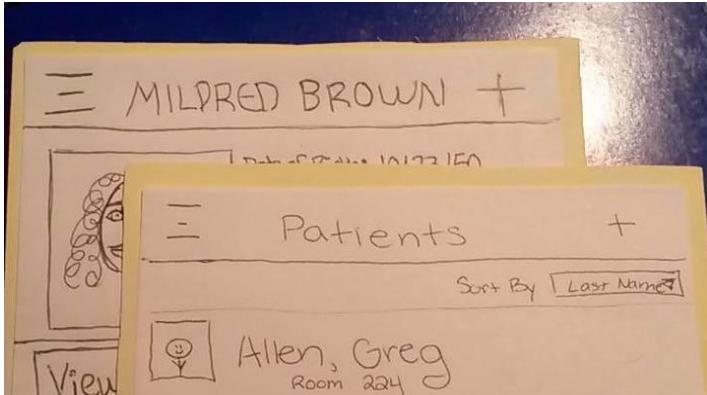
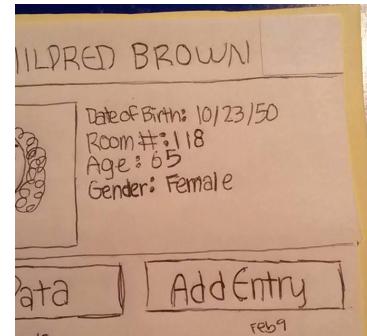
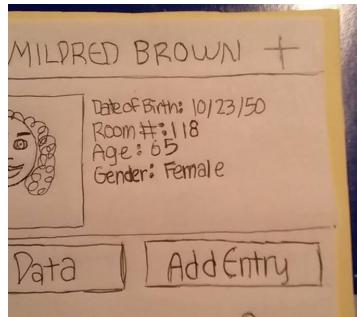
Testing Results

Affordances/Mapping



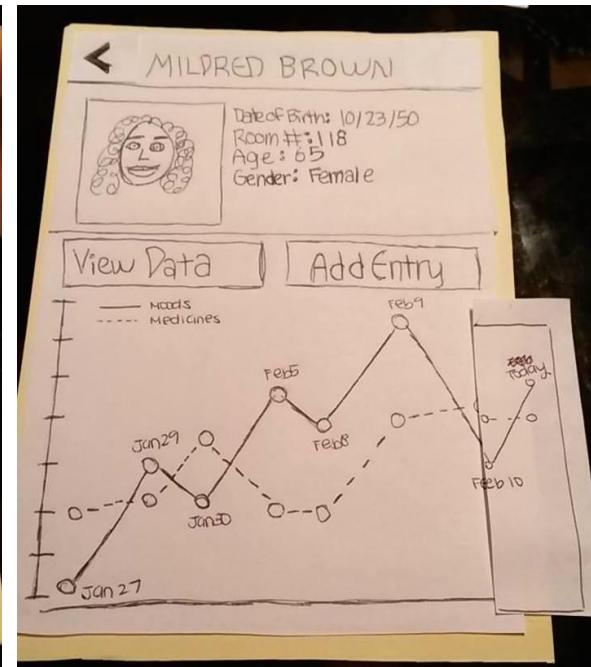
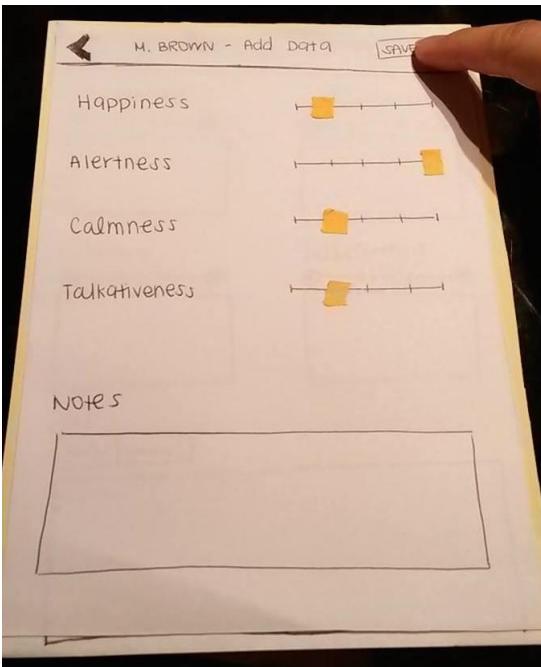
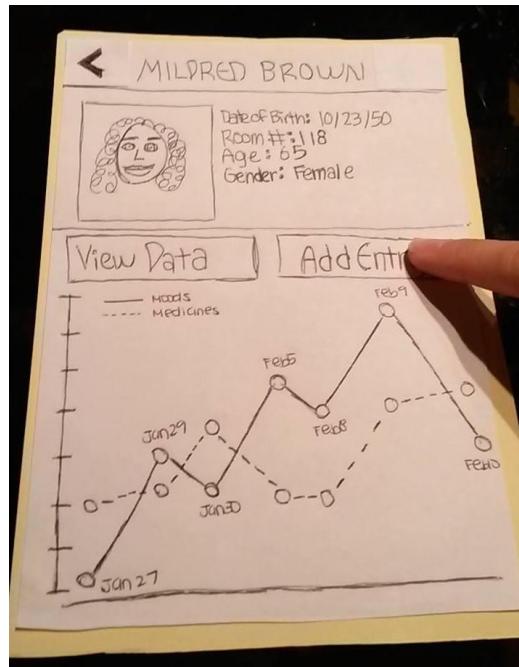
Testing Results

Consistency and standards



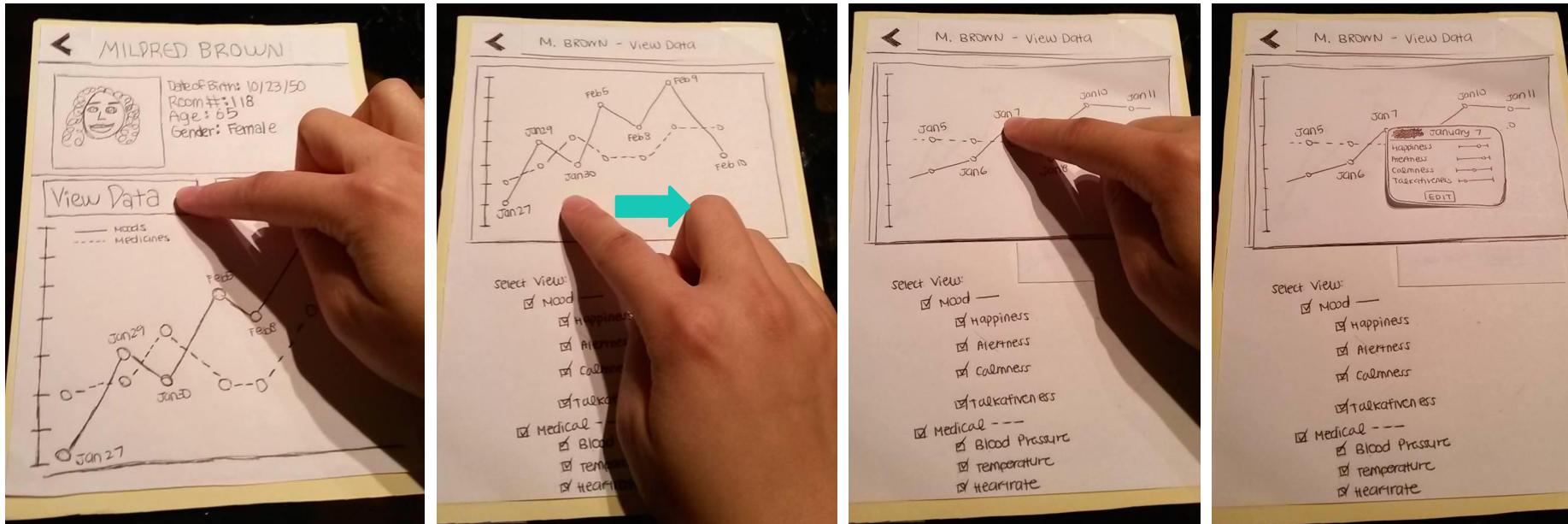
Final Paper Prototype

Task 1: Insert new record



Final Paper Prototype

Task 2: View patient's past data



Digital Mockup

Goal: Track Mood/Comfort Levels

Task: Insert new record

Welcome, Sally Smith! X

Patients	1	+ Line Graph
Colleagues		+ Line Graph
Notifications	2	+ Line Graph
Settings		+ Line Graph

Patients

Sort By Last Name ▾

Greg Allen Room 224	+ Line Graph
Mildred Brown Room 118	+ Line Graph
Kimme Jensen Room 208	+ Line Graph
Bob Miller Room 132	+ Line Graph
Amy Stevens Room 145	+ Line Graph

New Patient

Mildred Brown

Room #: 118
Date of Birth: 10/23/50
Age: 65
Gender: Female

New Entry +

View Data Line Graph

Alerts

June 26 Talkativity levels possibly affected by change in blood pressure

The graph displays five data series over a two-week period. The series are represented by colored lines: red, green, blue, yellow, and black. The x-axis shows dates from June 10 to June 28. The y-axis represents mood or comfort levels. The red line starts at a low level, peaks on June 12, and then drops sharply to a low level by June 26. The green line starts at a medium level, peaks on June 12, and remains relatively stable. The blue line starts at a low level, peaks on June 12, and then drops to a low level by June 26. The yellow line starts at a medium level, peaks on June 12, and then drops to a low level by June 26. The black line starts at a low level, peaks on June 12, and then remains relatively stable.

New Entry

Happiness High Sliding Scale

Alertness Medium Sliding Scale

Calmness Medium Sliding Scale

Talkativeness Medium Sliding Scale

Notes

Done

Digital Mockup

Goal: Communication between Caretakers

Task: View patient's past data...and receive notifications of changes

Welcome, Sally Smith! X

Patients 1 + graph

Colleagues + graph

Notifications 2 + graph

Settings + graph

New Patient

Patients 2

Sort By Last Name ▾

Profile	Name	Room	Add	Graph	
	Greg Allen	Room 224	+	graph	
	Mildred Brown	Room 118	1	+	graph
	Kimme Jensen	Room 208	+	graph	
	Bob Miller	Room 132	+	graph	
	Amy Stevens	Room 145	+	graph	

New Patient

< Mildred Brown

Room #: 118
Date of Birth: 10/23/50
Age: 65
Gender: Female

New Entry +

View Data graph

Alerts

June 26 Talkativity levels possibly affected by change in blood pressure

The chart displays four data series: mood (green), blood pressure (blue), heart rate (yellow), and temperature (red). The x-axis represents dates from June 10 to June 28. The y-axis represents values for each series. A black horizontal line indicates the average for each series. A red line shows a sharp drop in temperature starting around June 24. A yellow line shows a peak in heart rate around June 16. A green line shows a peak in mood around June 12. A blue line shows a steady increase in blood pressure from June 10 to June 28.

< Mildred Brown

Mood

Medical

- alertness
- calmness
- happiness
- talkativeness

- blood pressure
- heart rate
- temperature

This chart is identical to the one above it, showing the same four data series (mood, blood pressure, heart rate, temperature) over the same time period (June 10 to June 28) for patient Mildred Brown. It highlights a significant dip in temperature starting on June 24, which triggered the 'Talkativity levels possibly affected by change in blood pressure' alert.

Digital Mockup

+ new addition

Goal: Communication between Caretakers

Task: View messages from other caretakers

The digital mockup displays a mobile application interface for caretakers. On the left is a navigation sidebar with a purple header containing the text "Welcome, Sally Smith!" and a close button (X). Below the header are four main categories: "Patients" (with a red notification badge "1"), "Colleagues", "Notifications" (with a red notification badge "2"), and "Settings". Each category has a plus sign icon and a line graph icon. The "Notifications" section is expanded, showing two notifications: one for "Steve" (Patient: N/A, Remember to clock out!) and one for "Erica" (Patient: Mildred Brown (118), Remember fluff pillows!). Each notification has a small square checkbox next to it.

Takeaways

Ensure that the tasks being designed for are in fact relevant to users

Do heuristic evaluations before jumping into usability tests

Never assume the intuitiveness of a concept

If your user can't do it, don't try to teach them; change your UX

Thank you!



*"A platform for collecting and consolidating
medical and personal information"*