UX & Rescue Wireframes

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Setup - Onboarding

1 User can choose to either log in or register

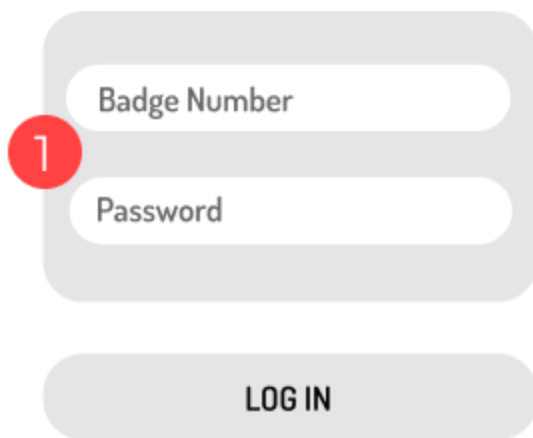**2** Registration with a badge ID is required for legal reasons
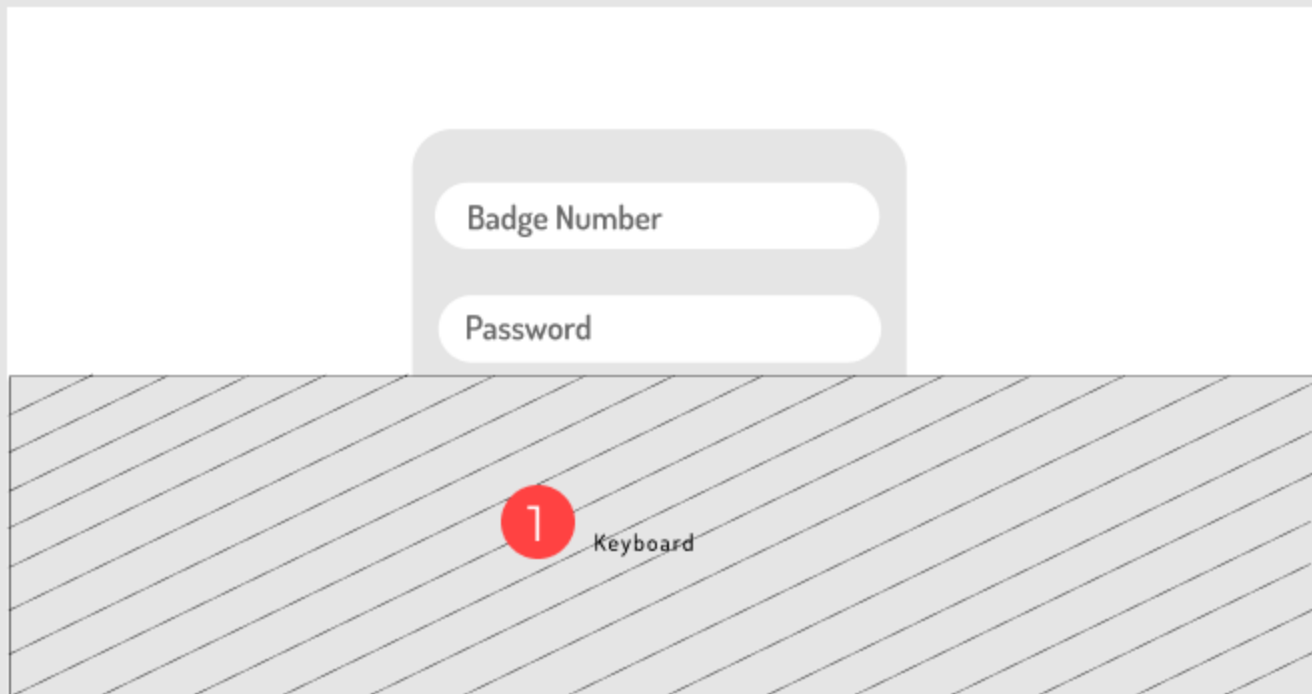
1

REGISTER **2**

LOG IN

1

Setup - Log In

1 User enters in their badge number and password to log in

1

Badge Number

Password

LOG IN

Setup - Log in Keyboard

1 Keyboard pops up when the user clicks to input badge number and password
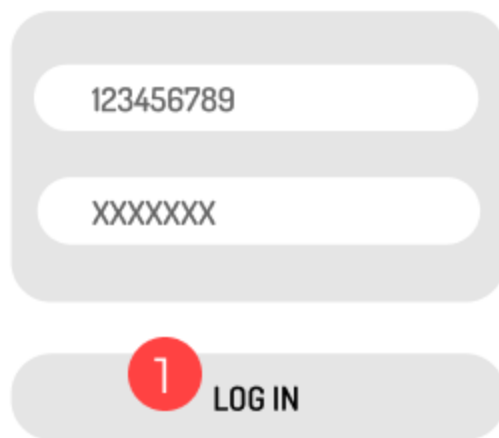
Badge Number

Password

1 Keyboard

Setup - Login Complete

1 Allows them to start completing a report for an incident. User is taken to main menu

123456789

XXXXXXX

1 LOG IN

Setup - Register

1 User inputs in badge number, last name and password to sign up. All are required for legal reasons

Badge Number

Last Name

Password

Register

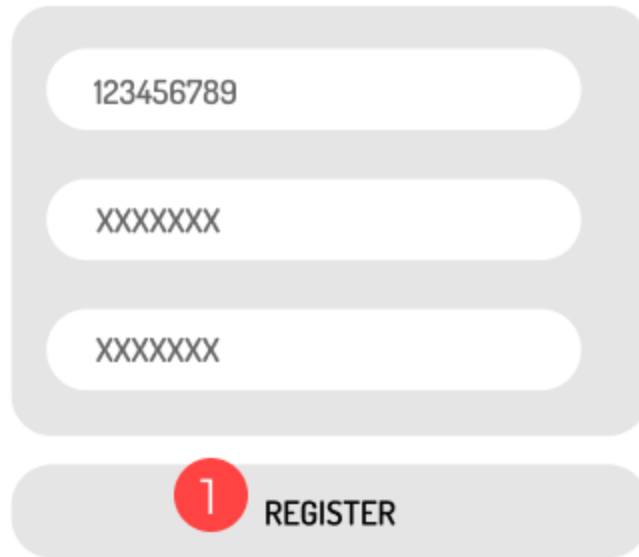# Setup - Register Keyboard

1 Keyboard pops up when the user clicks to input badge number, last name, and password

Badge Number

Last Name

1 Keyboard
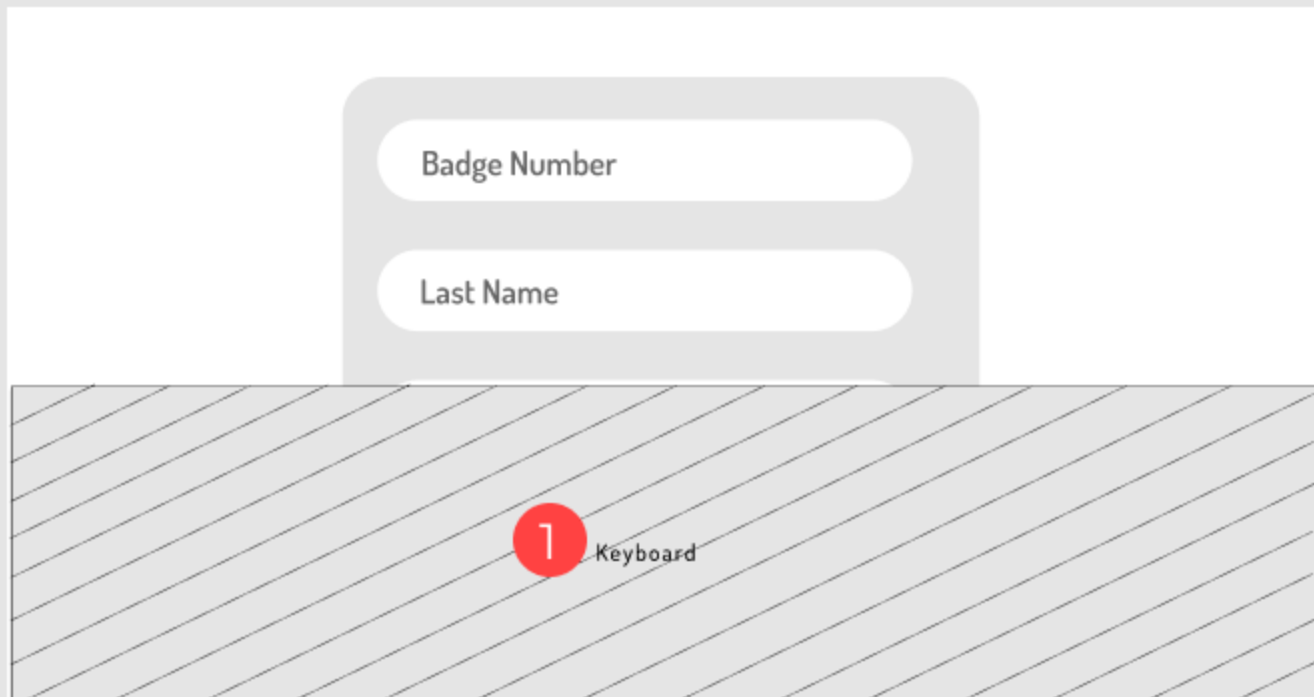
Setup - Register Complete

1 Allows the user to create an account and begin the tutorial

Setup - Tutorial

1 Screen will be shown once after registration

1

Would you like to walk through the tutorial?

YES   NO

8

Setup - Tutorial Menu

1 User can skip the tutorial at any time, letting them begin a report

2 Explains the user input supported by system, and how to move around report

3 Explains how to record data in report

2 HOW TO NAVIGATE

3 HOW TO INPUT DATA

1 Finish

< Back

Setup - Tutorial How to Navigate

1 Example shows the user how to input data via voice or touch

2 Pressing next will continue the tutorial

3 Creating a report records data about an incident for legal reasons and data purposes

HOW TO NAVIGATE

What would you like to log?

- Vitals
- Action Taken
- Patient Info

> To select an option, you can use either voice or touch. **1**

> For voice: Say "Record" to get the system to begin listening. Then say "Log Vitals" or "Log Action Taken" or "Log Patient Info"

> For touch: Press the function you would like to log.

3

Report 1   New Report

> To create a new report for a different patient, press the " **+**" icon.

> Press 👤 to go back to the home screen.

< Back

2 Next >

Setup - Tutorial How to Input Data

1 Example shows user how to input data for vitals

2 User clicks to finish the tutorial

HOW TO INPUT DATA

Blood Pressure

Heart Rate

Spo2

Body Temperature

Orientation

> To select an option, you can use voice or touch.

> To make the system begin listening, say "Record". Then say "Blood Pressure 120 over 80" or "Heart Rate 80 beats per minute." A screen will appear to confirm the information. Voice can be used for Patient Information and Action Taken as well.

listening...

"Blood Pressure 120/80..."

If incorrect, speak again.

1

> For touch: Select the option you'd like to input and type in the data.
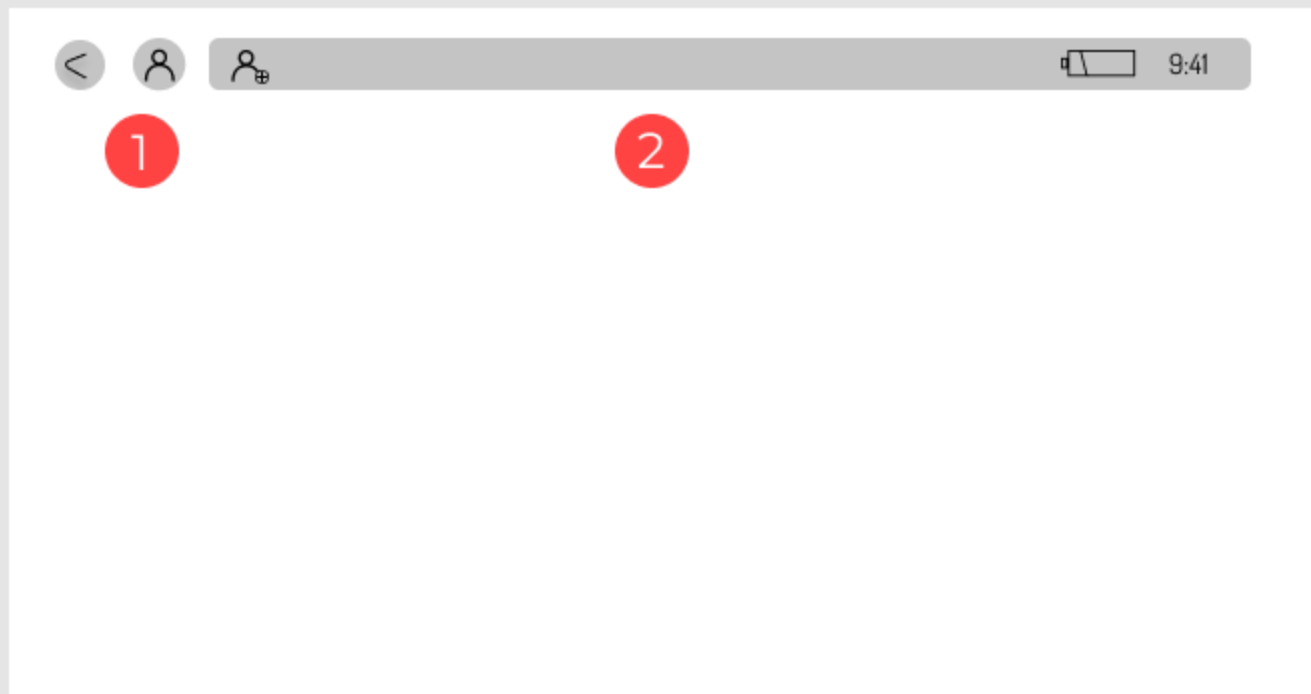
2

< Back

Finish

Home Screen - Create a Report

1 Reporting is the main functionality of this system. It adds information about an incident, for legal and data purposes. User creates a report by voice or touch

2 The screen is mainly blank to not block user's eyesight if they want the system on all the time

9:41

1

2

Main Menu - Report 1

1 Report 1 is grayed in to indicate data is for report 1

2 User can record who was hurt/called/needed attention

3 User can input the vital measures they took from patient

4 User can record what response they took while on scene

5 Review allows the user to review all the information they have filled in so far, commonly used right before submission

< ⊗ ⊗⊕   ⊏▭ 9:41

1

What would you like to log?

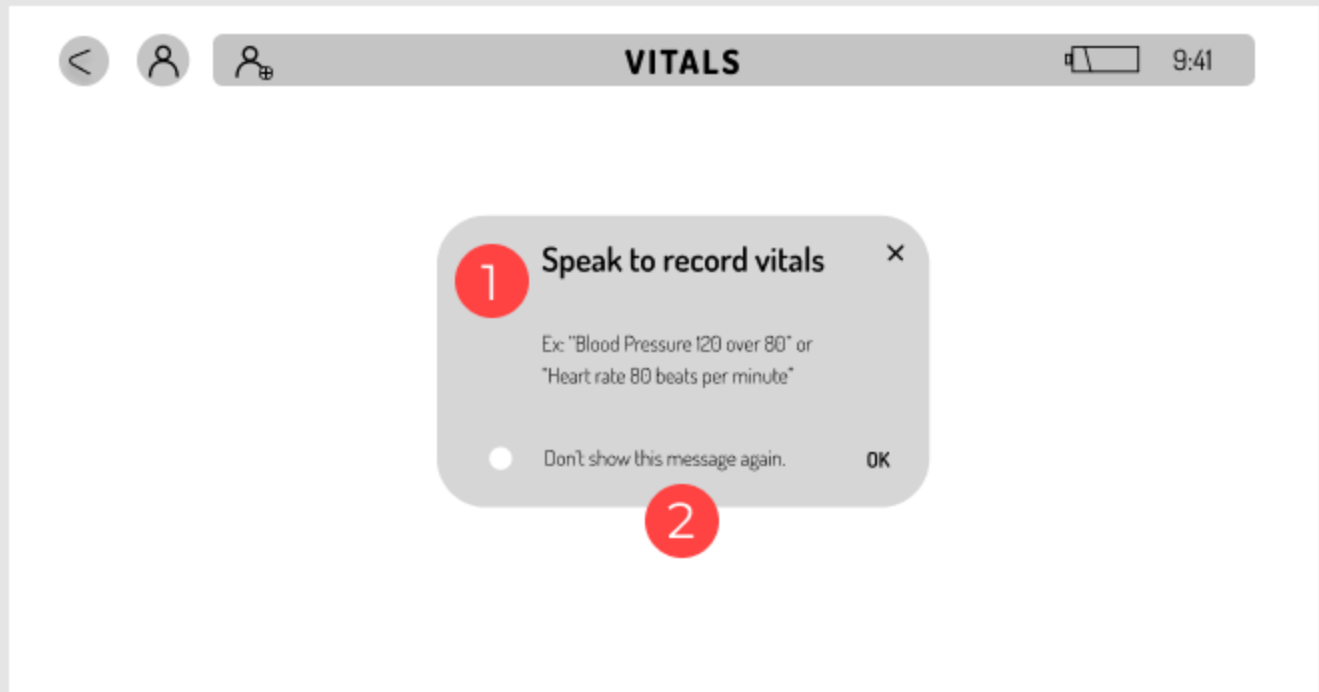**2** Patient Information

3 Vitals

4 Action Taken

5 **Review**

13

Record Data - Vital Reminder

1 For our intermediate user, we chose to display this message to remind of system functionality

2 User can choose to not show message (for expert user), or to continue showing

< 👤 👤⊕ **VITALS** 🔋 9:41

1 **Speak to record vitals** ✕

Ex: "Blood Pressure 120 over 80" or "Heart rate 80 beats per minute"

○ Don't show this message again. **OK**

2

Record Data - Vital Reminder Answered

1 A filled in bubble means the user has checked that option

2 After answering, user is taken to vitals menu

VITALS   9:41

1

Speak to record vitals ✕

Ex: "Blood Pressure 120 over 80" or
"Heart rate 80 beats per minute"

● Don't show this message again.   **OK**
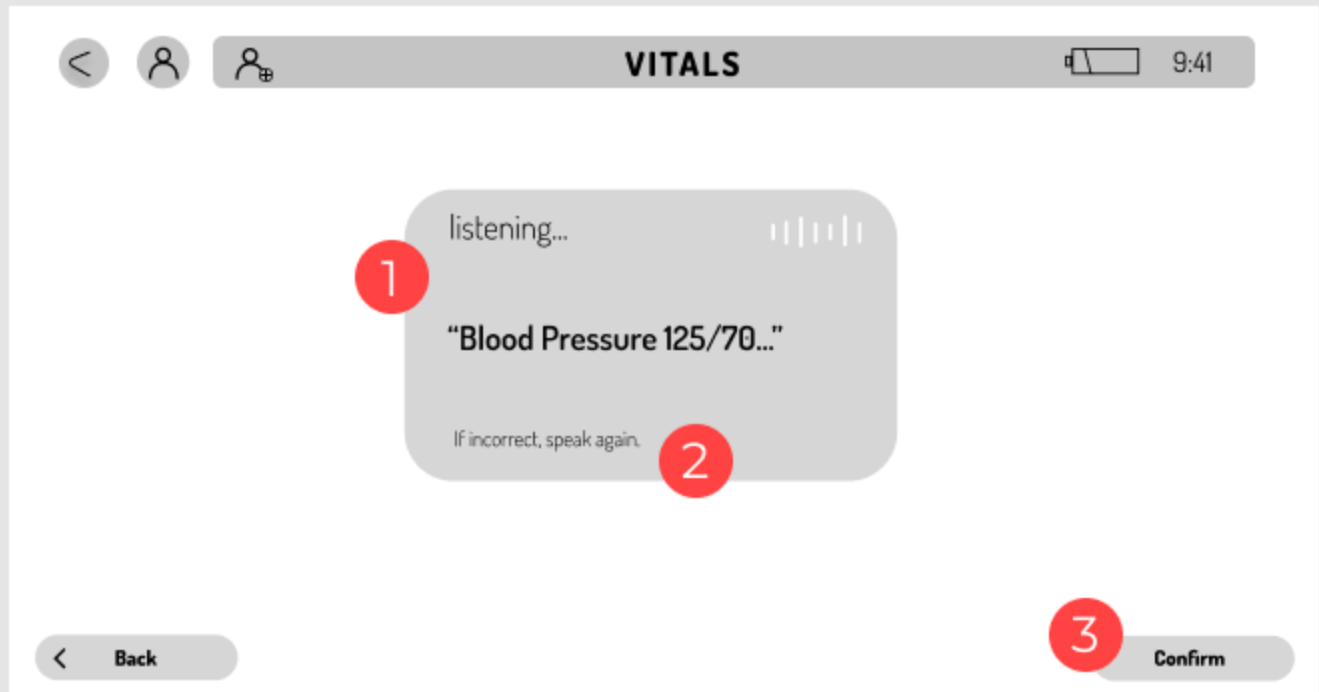
2

Record Data - Vital Menu

1 Main menu that has all vitals listed

2 Orientation is more in-depth and has its own subset of measures. Intermediate users are aware of this
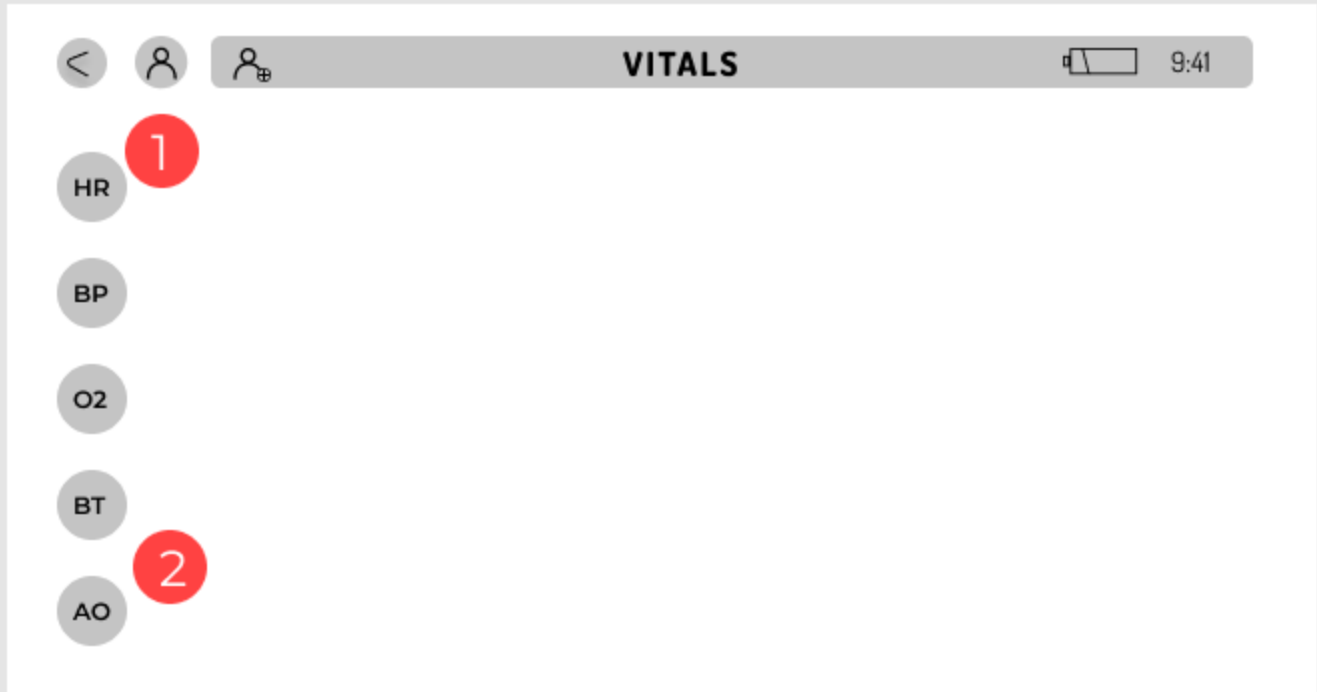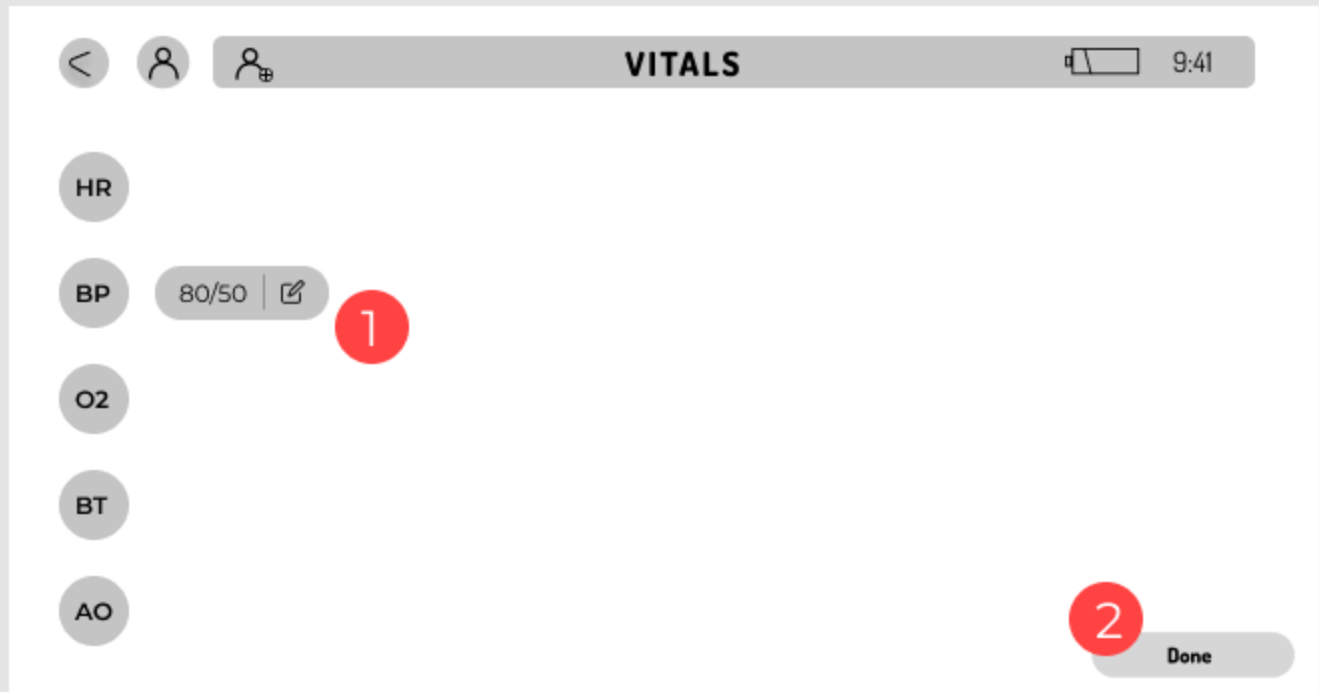
Record Data - Blood Pressure

1 When system hears record, it begins listening for user input and recording it

2 Lets the user know that the vital can be resaid if the system misinterpreted

3 Pressing confirm confirms the vital and ends the system listening

< 👤 👤⊕   **VITALS**   🔋 9:41

1

listening... �

"Blood Pressure 125/70..."

If incorrect, speak again. **2**

< Back

3 Confirm

17

Record Data - Vital Menu

1 Blood pressure has been recorded, with an option by touch and voice to edit

2 User can click done, and come back to recording vitals

Record Data - Heart Rate

1 When system hears record, it begins listening for user input and recording it

2 Lets the user know that the vital can be resaid if the system misinterpreted

3 Pressing confirm confirms the vital and ends the system listening

VITALS   9:41

1 listening...

"Heart Rate is 80 bpm..."

2 If incorrect, speak again.

3 Confirm
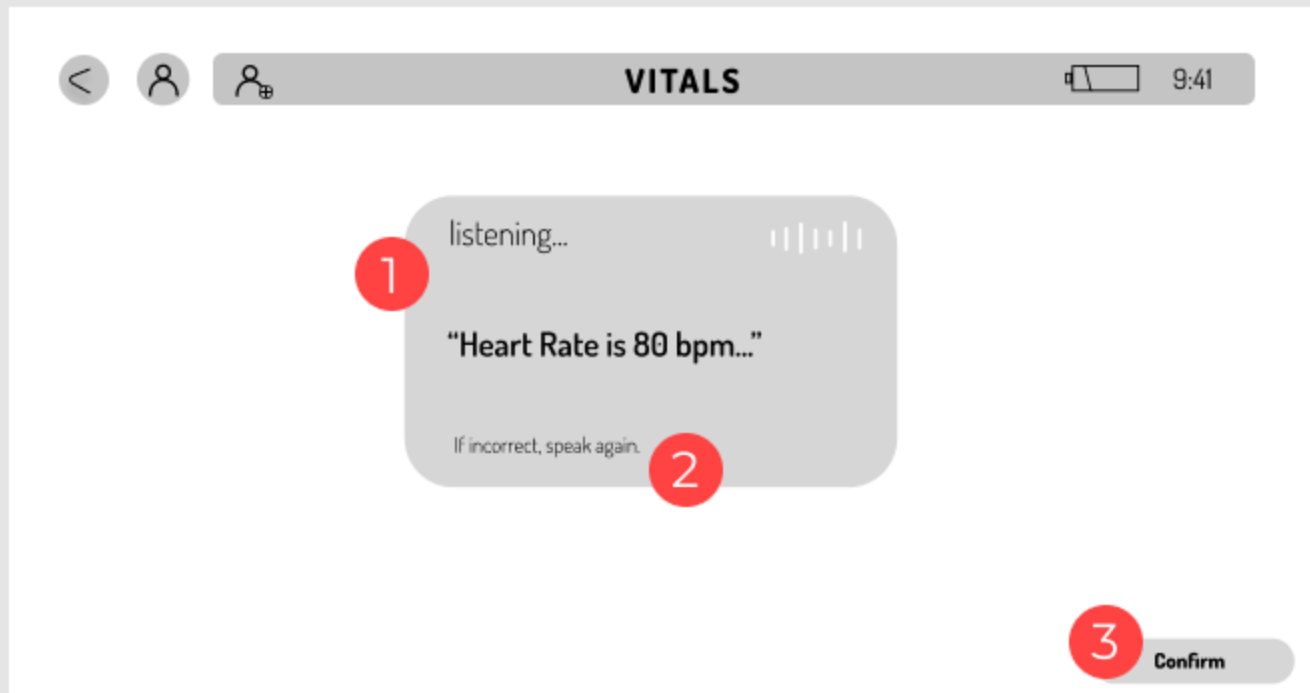
Record Data - Vital Menu

1 Now blood pressure and heart rate are recorded, with both being able to be edited

2 User can click done, and come back to recording vitals

< 👤 👤⊕   **VITALS**   🔋 9:41

HR   60 BPM | 🖉

1

BP   80/50 | 🖉

O2

BT

AO

2   Done

Record Data - Orientation

1 The patient's orientation score is determined by the number of fields they can list

2 The user can check the number of fields the patient completed

21

Report Data - Vital Menu

1 The information from pg 21 was synthesized into this tag, which means "Alert & Oriented", times the score they recieved. The firefighters understand this scoring system
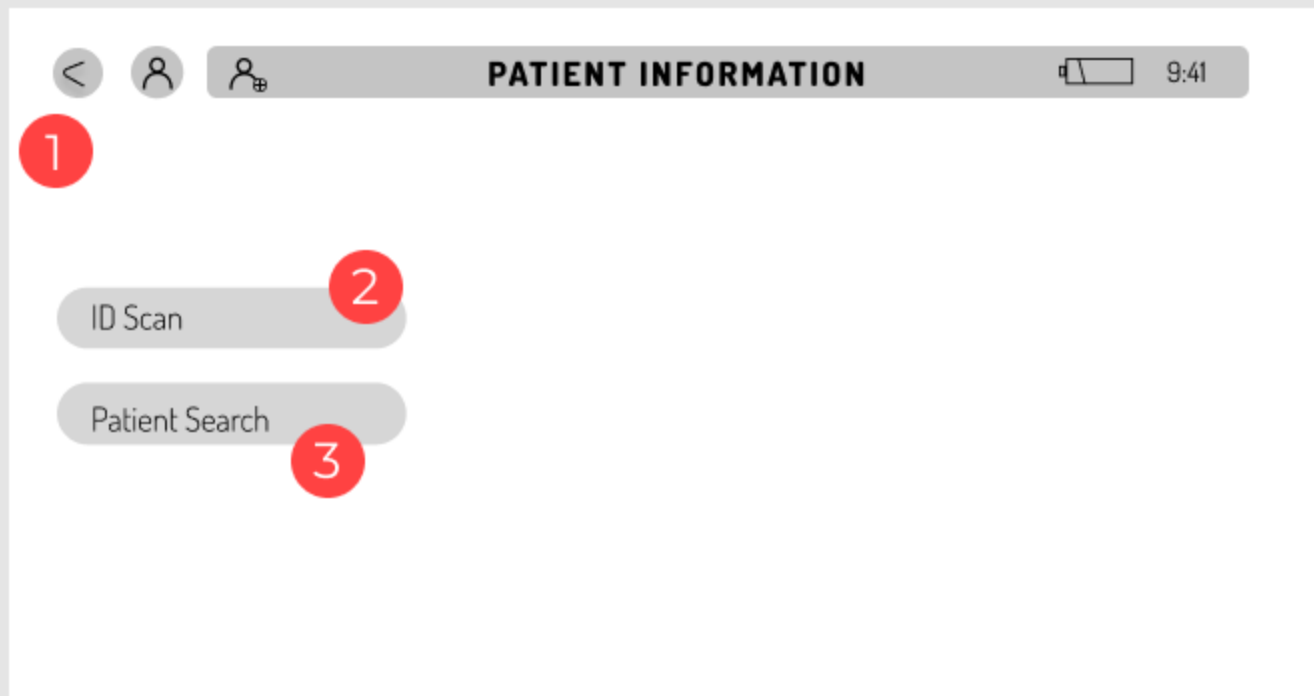
Report Data - Patient Infomation Home

1 Report 1 is grayed in because the user is filling out information for Report 1.

2 User can choose to scan an ID (medicine, license, hospital armband, etc.) to receive patients name if the patient is unresponsive
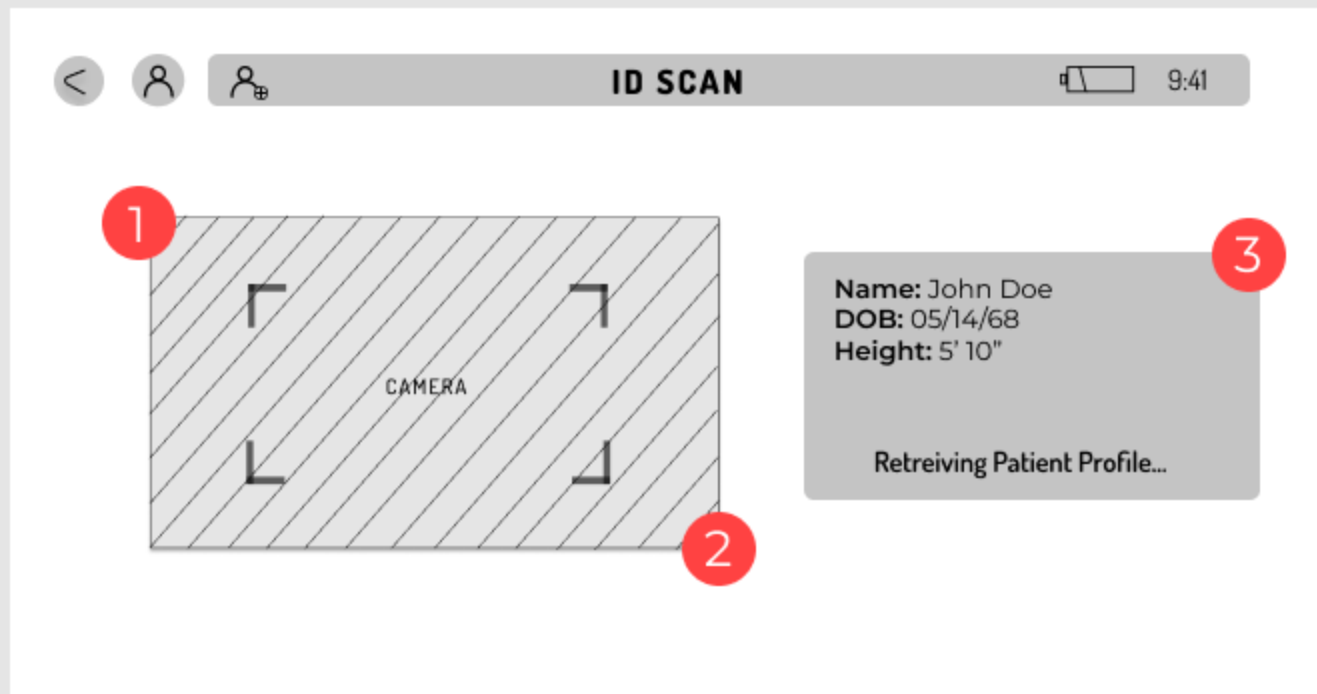
3 User can choose to search through existing database for patient information

PATIENT INFORMATION   9:41

1

ID Scan **2**

Patient Search **3**

23

Report Data - Patient Infomation ID Scan

1 Glasses (our form factor) will have a camera

2 User positions identification in the outlined area and waits for the system to capture it

3 Patient data will appear and fill in next to the capture

< 👤 👤⊕ **ID SCAN** 🔋 9:41

1

CAMERA

2

3

Name: John Doe
DOB: 05/14/68
Height: 5' 10"

Retreiving Patient Profile...

Report Data - ID Scan Results

1 Patient name is filled in from ID scan

2 Similar names that have existing reports

3 User can also enter DOB, if known, to narrow options (keyboard on pg 7,1)

4 If patient is not found in existing reports, user can create a new one

< 👤 👤⊕   **PATIENT INFORMATION**   🔋 9:41

3

DOB:

Name: John Doe   **1**

Existing Reports:

John M. Doe

Johnathon Doey   **2**

Johnathen Doe Walter

Joe Doe

NEW PATIENT   **4**

Report Data - ID Scan New Patient

1 Only the name from the ID scan is filled in for new patient

2 Report is blank and ready to be filled in

3 Call on [date of today] automatically fills in with today's date

4 User can click to cement information and return to main menu

JOHN DOE — 9:41

DOB: / /

Sex:

Height:

Weight:

Preferred Hospital:

Emergency Contact:
Name:
Phone Number:

Known Conditions: +
-
-
-

History +
- call on [date of today]
-

Allergies: +
-
-
-
-

Medications: +
-
-
-
-

Confirm

Report Data - ID Scan Existing Patient

1 Pulls up the patient info of a previous patient

2 User can click on any field to edit (keyboard on pg 7, 1)

3 User can click on + to add medical information (keyboard on pg 7, 1)

4 All the fields are displayed on one screen, users do not like hidden fields or progressive disclosure

JOHN DOE   9:41

DOB: 08/13/1974

Sex: Male

Height: 6'0"

Weight: 170

Preferred Hospital: lorem ipsum

Emergency Contact:
Jane Doe
(XXX)-XXX-XXXX

Known Conditions: +
- lorem ipsum dolor
- lorem ipsum dolor
- lorem ipsum dolor

History: +
- call on 04/22/13
- call on 12/31/17

Allergies: +
- lorem ipsum dolor
- lorem ipsum dolor
- lorem ipsum dolor
- lorem ipsum dolor

Medications: +
- lorem ipsum dolor
- lorem ipsum dolor
- lorem ipsum dolor
- lorem ipsum dolor

27

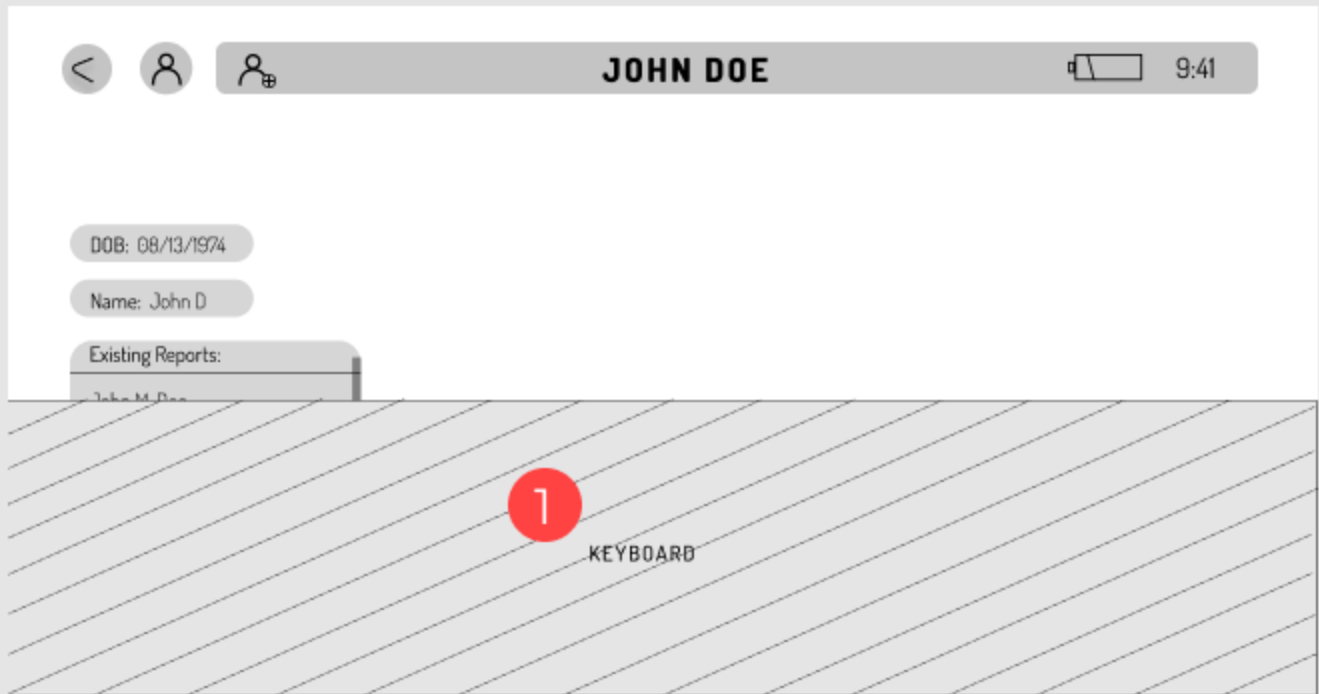# Report Data - Infomation Patient Search

1 User can input DOB and/or Name (first and/or last) to find a patient. Entering DOB significantly narrows search results

2 New patient can be created before search, to save time if no previous report known

Report Data - Patient Search Keyboard

1 When name or DOB field is clicked, keyboard pops up for typing

Report Data - Patient Search Filled

1 Similar names that have existing reports (pg 3, 2)

2 If patient is not found in existing reports, user can create a new one (pg 3, 4)

30

Report Data - Patient Search New Patient

1 Name is not filled in, user gets completely blank form

2 Report is blank and ready to be filled in

3 Call on [date of today] automatically fills in with today's date

31

Report Data - Patient Search Existing Patient

1 Pulls up the patient info of a previous patient

2 User can click on any field to edit (keyboard on pg 7, 1)

3 User can click on + to add medical information (keyboard on pg 7, 1)

4 All the fields are displayed on one screen, users do not like hidden fields or progressive disclosure

Patient Search 9:41

1

DOB: 08/13/1974

Sex: Male

Height: 6'0"

Weight: 178

Preferred Hospital: lorem ipsum

Emergency Contact:
Jane Doe
(XXX)-XXX-XXXX

2

Known Conditions: +
- lorem ipsum dolor
- lorem ipsum dolor
- lorem ipsum dolor

History: +
- call on 04/22/13
- call on 12/31/17

4

Allergies: +
- lorem ipsum dolor
- lorem ipsum dolor
- lorem ipsum dolor
- lorem ipsum dolor

3

Medications: +
- lorem ipsum dolor
- lorem ipsum dolor
- lorem ipsum dolor
- lorem ipsum dolor

Report Data - Action Taken

1 User has to fill out 1 of the 3 sections

2 Transfer to med and treatment refusal open up their own unique pages. Users didn't like progressive disclosure, but we felt the interface needed organization

3 By selecting a field, the circle will become filled in

< A A⊕   **ACTION TAKEN**   🔋 9:41 **1**

ON SCENE CARE

PT Exam	Wound/Burn Care	Oxygen	Medication	I.C Injection
Splint	Rescue/Extraction	Splint/Reduction	Psychological	ECG Monitor
Peripheral IV	Intubation			

3

TRANSFERED TO MED

| Location | Method |

TREATMENT REFUSAL

| Signature Required | **2**

Confirm >

Report Data - Action Taken Transferred to Med

1 Field is outline and not bubbled in because it is in progress, not completed

2 Location is a fill in the blank field, which prompts the keyboard

3 Clicking next will take the user to the next field needed for Transferred to Med

ACTION TAKEN   9:41

TRANSFERRED TO MED

Location   Method

lorem ipsum   **Next**

Keyboard

34

Report Data - Action Taken Transferred to Med

1 Field is outline and not bubbled in because it is in progress, not completed

2 Location is a fill in the blank field, which prompts the keyboard

3 Clicking confirm marks the end of the Transferred to Med section and takes the user back to page 37

< 👤 👤⊕   **ACTION TAKEN**   🔋 9:41

TRANSFERED TO MED

○ Location   ● Method **(1)**

lorem ipsum **(2)**   **Confirm** **(3)**

Keyboard

Report Data - Action Taken Treatment Refusal

1 Field is outline and not bubbled in because it is in progress, not completed

2 Refusing treatment requires the patient to read a consent form and sign it

3 Clicking confirm marks the end of the Refusing Treatment section and takes the user back to page 37

< 👤 👤⊕   **ACTION TAKEN**   🔋 9:41

TREATMENT REFUASL **1**

(⚪ Signature Reqired) **Confirm** **3**

2 Consent Form with Signature

Report Data - Review Report

1 All the information filled in is on display, and a scrollbar is used to fit it all

2 Anything can be edited on this page

3 Clicking submit will send the report to the cloud and will finalize the report

Report Data - Submit Report

1 A warning message is shown because submitting the report is irreversible due to legal reasons

2 User has a chance to go back and edit

3 Completes the report and returns user to blank home screen (pg 12)

SUBMIT REPORT   9:41

1 Are you sure you want to submit Report 1?

This action cannot be undone, and the report may not be changed after submission.

○ Let me review   **SUBMIT** **3**

2
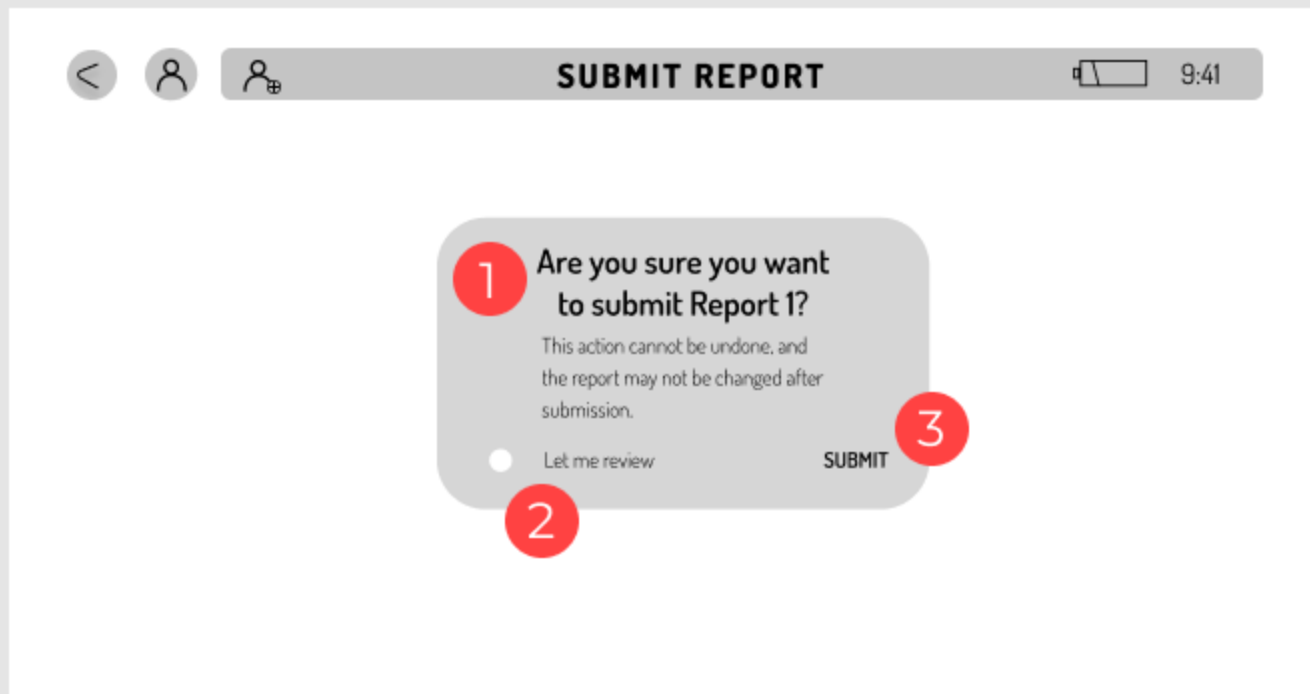
State Transition Diagram

Key Path: Inputting Vitals

Register/Log In

REGISTER

LOG IN

Log In

Badge Number

Password

LOG IN

Home Screen

New Report
12:47

Log Menu

Report | New Report
12:47

What would you like to log?

Patient Information

Vitals

Action Taken

Review

Vitals Home Page

Report | New Report
VITALS
12:47

Blood Pressure

Heart Rate

Spo2

Body Temperature

Orientation

< Back

Vitals Confirmation

Report | New Report
VITALS
12:47

listening...

"Blood Pressure 125/70..."

If incorrect, speak again.

< Back   Confirm

Blood Pressure Checked

Report | New Report
VITALS
12:47

Blood Pressure   125/70

Heart Rate

Spo2

Body Temperature

Orientation

< Back   Done

Heart Rate Confirmation

Report | New Report
VITALS
12:47

listening...

"Heart Rate is 80 bpm..."

If incorrect, speak again.

< Back   Confirm

Blood Pressure + Heart Rate Checked

Report | New Report
VITALS
12:47

Blood Pressure   125/70

Heart Rate   80

Spo2

Body Temperature

Orientation

< Back   Done

Alert & Oriented x 4

Report | New Report
VITALS
12:47

Person

Place

Time

Situation

< Back   Confirm

Alert & Oriented x 4 Confirmation

Report | New Report
VITALS
12:47

Person   ✓

Place   ✓

Time   ✓

Situation   ✓

< Back   Confirm

BP + HR + A&Ox4 Checked

Report | New Report
VITALS
12:47

Blood Pressure   125/70

Heart Rate   80

Spo2

Body Temperature

Orientation   A&O x4

< Back   Done

Review Report

Report | New Report
REVIEW REPORT
12:47

Patient Information

DOB: 08/13/1974   Preferred Hospital: lorem ipsum   Known Conditions: Allergies:
- lorem ipsum dolor   - lorem ipsum dolor
Sex: Male   Emergency Contact: - lorem ipsum dolor   - lorem ipsum dolor
Jane Doe   - lorem ipsum dolor   - lorem ipsum dolor
Height: 6'0"   (XXX)-XXX-XXXX
Medications:
Weight: 170   History: - lorem ipsum dolor
- call on 04/22/13   - lorem ipsum dolor
- call on 12/31/17   - lorem ipsum dolor

Vitals

Blood Pressure: 125/70   Spo2: 98   Orientation: A&O x4
Heart Rate: 80   Body Temperature: 98.6

< Back   Submit >

Submit Report

Report | New Report
SUBMIT REPORT
12:47

Are you sure you want to submit Report 1?

This action cannot be undone, and the report may not be changed after submission.

○ Let me review   SUBMIT

< Back