

Aero Med for Spectrum

Brody Berson

Mario Galeno

Kyle Schelhaas

Michael Torres

Goals

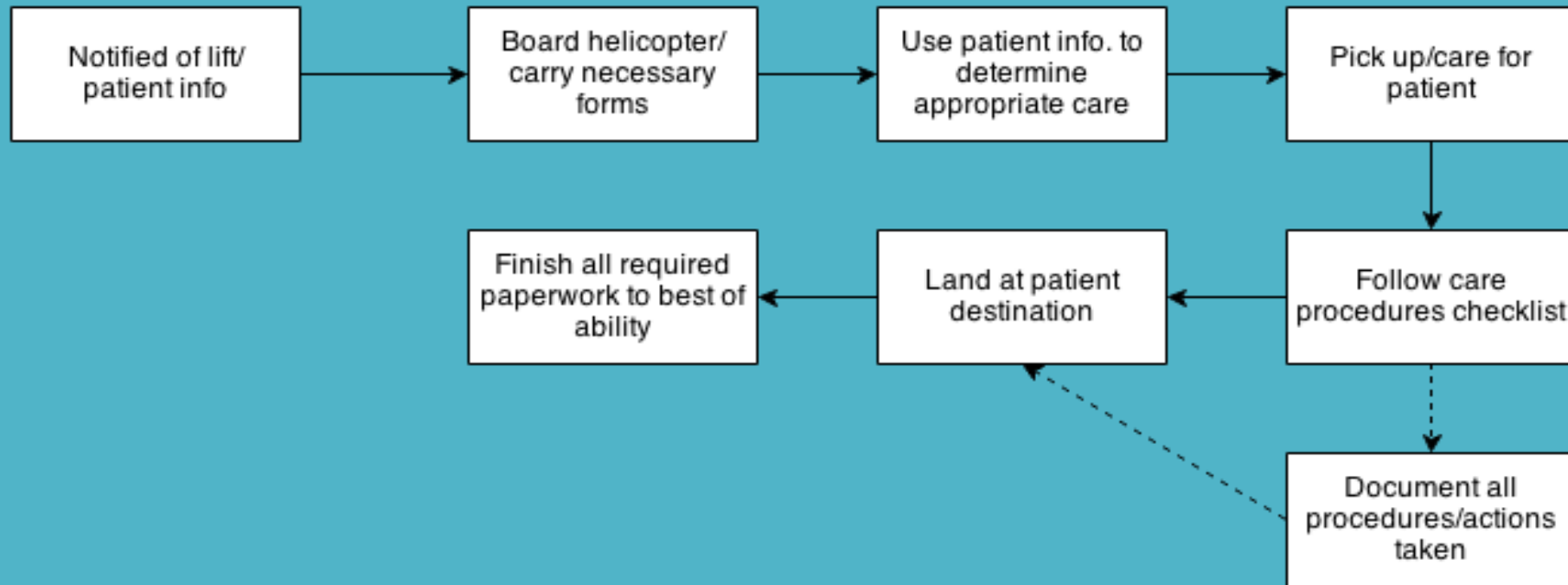
We would like feedback on the high level user experience design, along with how the application solves the user's needs.

- ☐ *Navigation*
- ☐ *Gestures*
- ☐ *Walkthrough*
- ☐ *Usefulness*

Overview

- ❖ Native iPad application for Emergency Medical Staff
- ❖ EMS staff can easily search and view best practices and procedures
- ❖ Use checklists to help with proper care of the patient
- ❖ Enter in patient information and details
- ❖ Track and view performance trends and areas of improvement for staff
- ❖ Leaders can easily audit performance of staff based on tracked performance

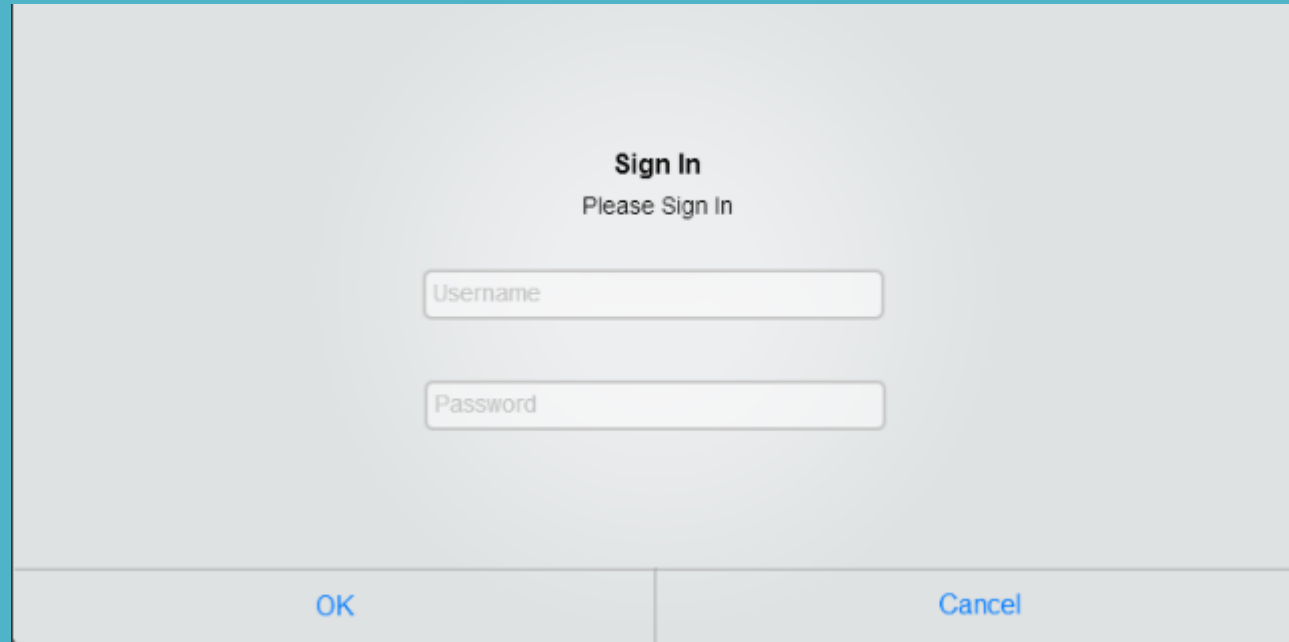
Target Audience Workflow



- Application should provide appropriate guidelines to treat the patient's condition
- Guidelines should be updated as needed
- Staff will easily record information about protocols through application
- Application should keep track of and display staff performance trends
- Leaders will use information to gather for auditing and ensuring quality care

User Accounts

- ❖ Create user accounts and sign in
- ❖ Helps with staff performance statistics
- ❖ Leaders can view performance trends



Sign In
Please Sign In

Username

Password

OK Cancel

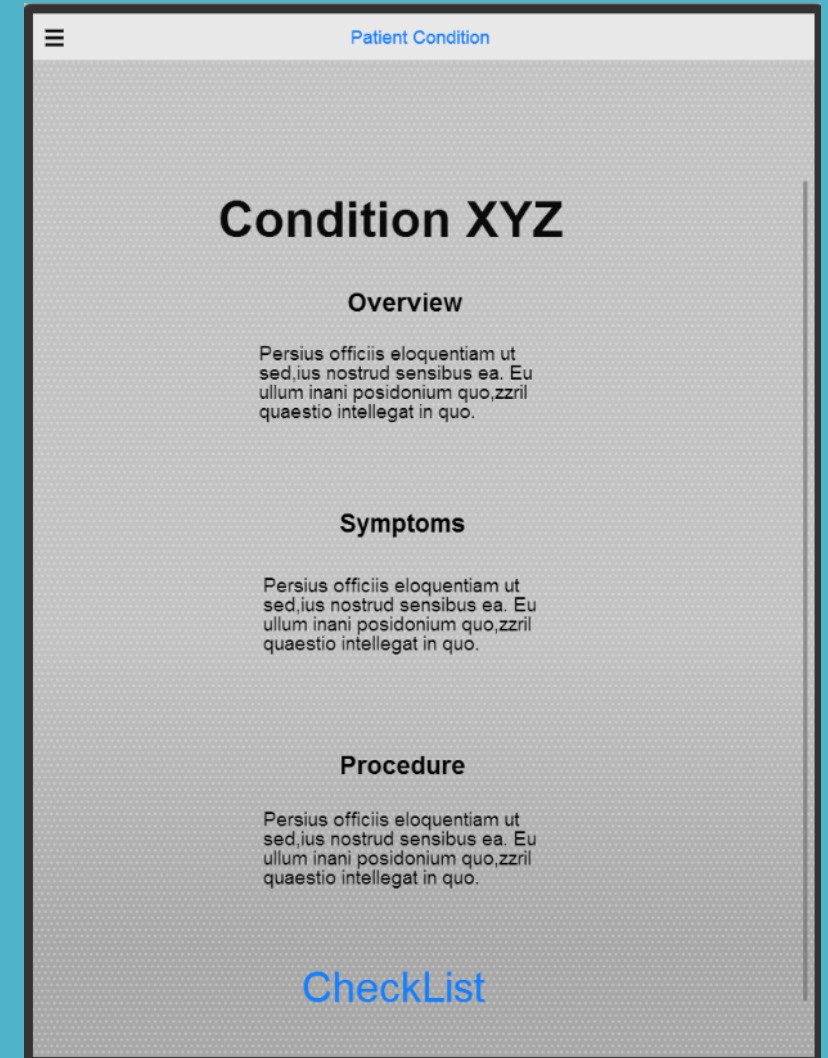
Patient Form

- ❖ Fill in and store patient information
- ❖ Add special notes about the patient
- ❖ Search for the patient's condition for procedures

The image shows a mobile application interface for a Patient Form. The screen is titled "Patient Information" and "Patient Form". It contains four input fields: "First Name", "Last Name", "Date of Birth", and "Allergies". Below these is a "Search Condition" section with a search bar and an "Enter" button. A virtual keyboard is visible at the bottom of the screen.

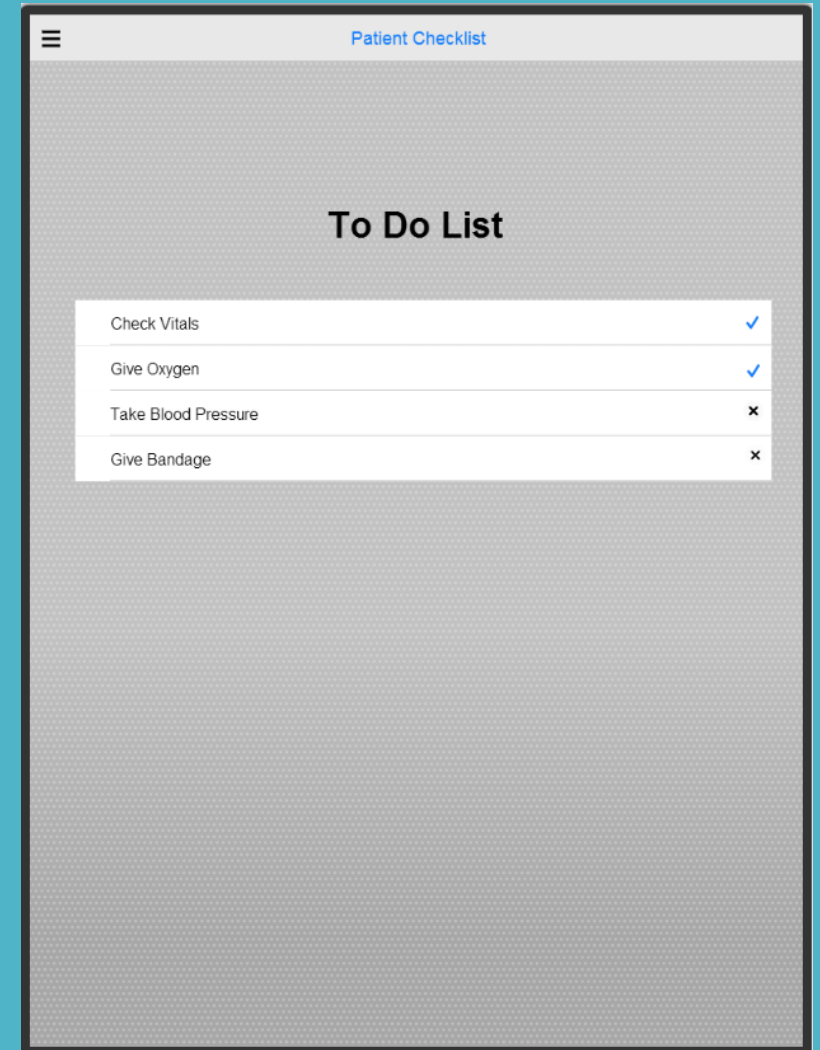
Patient Condition

- ❖ Show the specific condition of the patient
- ❖ Easy to navigate
- ❖ Searchable text and highlighting



Checklist

- ❖ An interactive list of things to do for the patient
- ❖ List based on best standards and practices for the given condition
- ❖ Data is stored in performance statistics

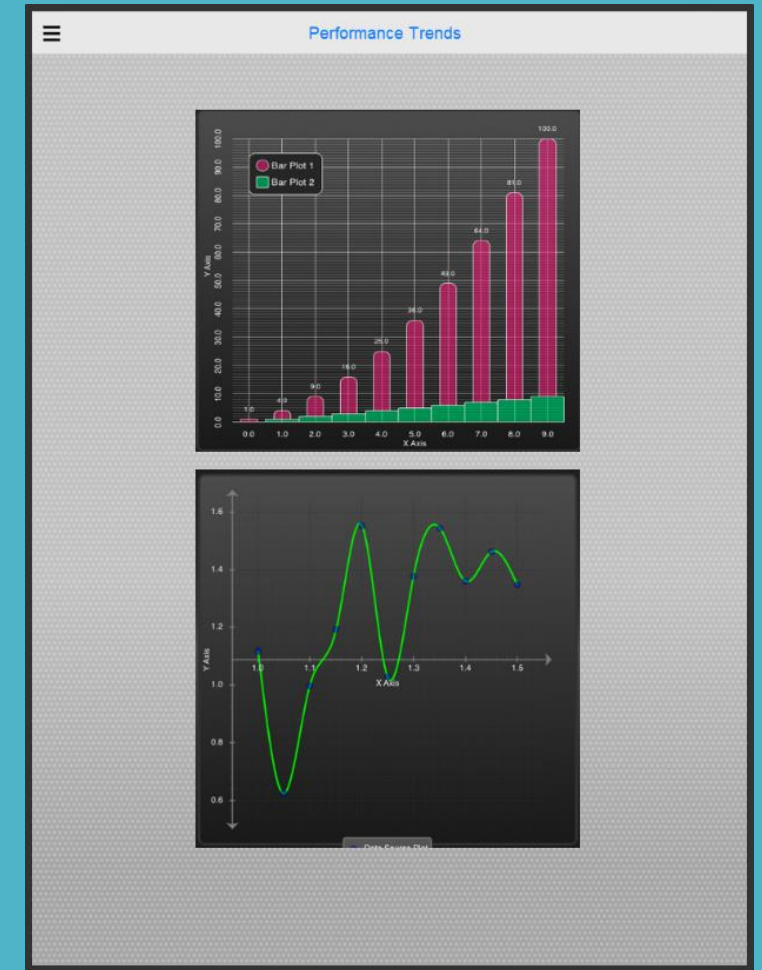


The screenshot displays a web application titled "Patient Checklist". It features a "To Do List" section with a table of tasks. The first two tasks, "Check Vitals" and "Give Oxygen", are marked with blue checkmarks, indicating they are completed. The last two tasks, "Take Blood Pressure" and "Give Bandage", are marked with red 'x' symbols, indicating they are not yet completed.

To Do List	
Check Vitals	✓
Give Oxygen	✓
Take Blood Pressure	✗
Give Bandage	✗

Performance Trends

- ❖ Use graphs to represent performance trends and data of staff
- ❖ Use open sourced library to display visually pleasing graphs
- ❖ Animate graphs on startup with Core Animation
- ❖ Only let Leaders have access to this data



Navigation

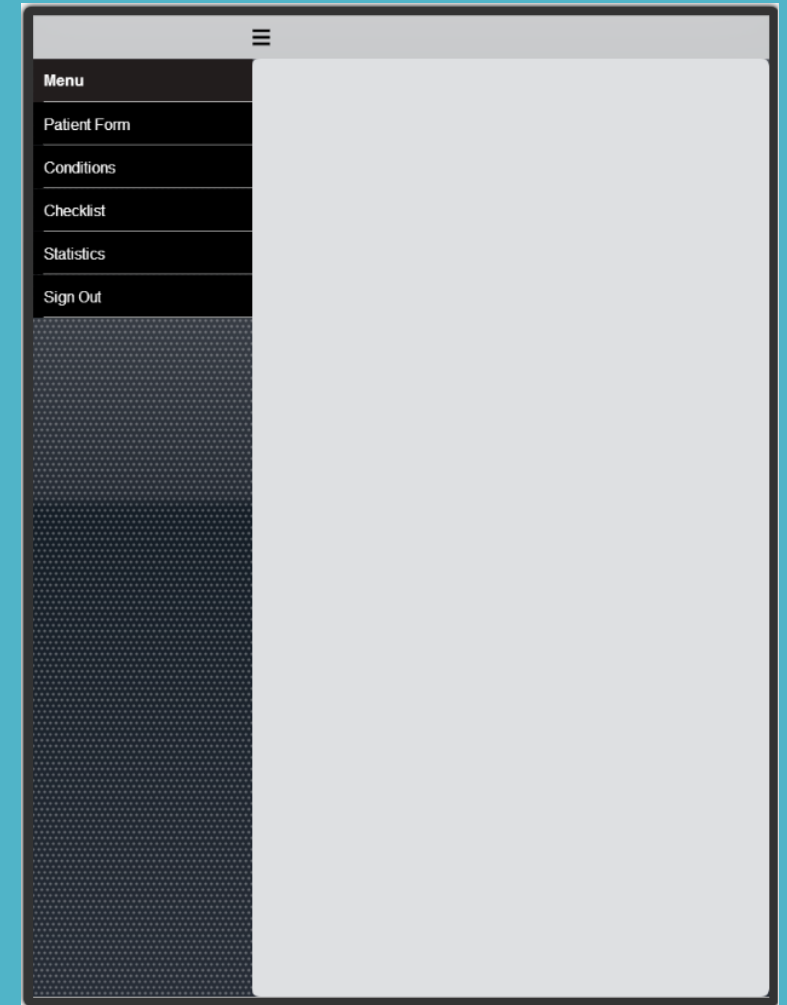
Slide out Menu

❖ Pros

- More screen real estate for content
- Every view has access to navigation
- Faster than button hierarchy navigation

❖ Cons

- Can be unfamiliar to user
- Slower than standard tab bar



Walkthrough

- ❖ On first initial startup the user is presented with a walkthrough
- ❖ Able to skip if desired
- ❖ Quickly shows user how to navigate and do main tasks

Gestures

- ❖ Slide out navigation menu
- ❖ Walkthrough
- ❖ Scrolling through data
- ❖ Browsing conditions

Process

- ❖ Native iOS 7 development using Mac OS X and XCode 5
- ❖ Language – Objective – C, CSS
- ❖ Testing – Testflight, Crashlytics, unit testing, emulators and real devices
- ❖ Debugging – Xcode, Spark Inspector
- ❖ Frameworks – Pixate, Core-Plot, SWRevealViewController