Building Better Users
Let’s Talk

• Problem
• Solution
• Implementation
The Problem

- Hospital Logistics
  - Pharmacists move things
  - Doctors move things
The Problem

• Hospital Logistics
  ▪ Pharmacists waste time moving things
  ▪ Doctors waste time moving things

Conclusion: Walking just became expensive!
The Solution

• Automated Logistics
  ▪ QCBot moves things
The Solution

• Why QCBot?
  - No costly infrastructure
  - Smart navigation
  - Smart interaction
  - Rapid site setup
The Implementation

• Webapps.
• Everywhere.
What Webapps?

• Robot UI for coordinating deliveries
• Centralized logistics server
• Realtime Webapp for remote support
This sounds a lot like...

• Controlling robots on a field from your computer...

• !!!
real world
in browser
THE NEXUS PROJECT

- Remote
  - Scheduling
  - Monitoring
  - Assisting

- Easy
  - Client-side setup
  - Component replacement
  - Just need a browser!
MONITORING
CLIENT-SIDE SETUP

QCBox

Site Map
COMPONENT REPLACEMENT

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LOGISTICS PLATFORM

- Delivery Robot
- Tour Guide Robot
- Handicap Assist Robot
- <Your idea here>

Mission Planning Server

- Client Admin
- Client Support
- Client Pharmacist
- Vecna Support

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LOGISTICS PLATFORM

Mission Planning Server

- Delivery Robot
- Tour Guide Robot
- Handicap Assist Robot
- <Your idea here>
- Me from my bed

Vecna Support
- Client Pharmacist
- Client Support
- Client Admin
Building Better Users
Building Better Users

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BUILD PROCESS

- Jasmine: Javascript Unit Testing
- JUnit: Java Unit Testing
- Jenkins: Continuous Integration
- Front-end Project Building
RESULTS

- Modular + Extensible Design
- Rapid Development and Iteration
- Quick + Reliable Production Pushes
Thank You 😊