

Fraser Health Hackathon 2017

January 22, 2017

Team Ambu*Link*:

Stanley Zhou

Evan Colville

Stephen Smith



 Addresses a number of BC Emergency Health Services strategic goals, such as improved inclusion of paramedics in the overall patient care process

Current state For Ambulance and Pre-hospital Care

- Inefficient processes
- Paper-based tools
- Minimal access to medical records



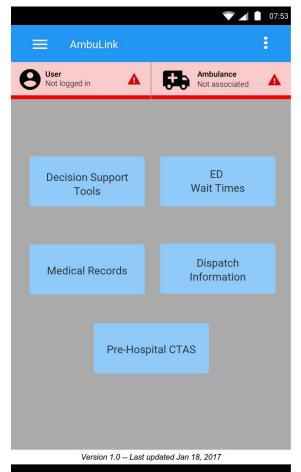
Ambulink Application

- Used by ambulance crews, air and terrestrial
- Practical blend of reliable, cost-effective, trusted technologies
- Platform-agnostic, portable to Android, iOS and other operating systems
- Utilizes cellular data network available throughout Canada
- Flexible and scalable



Goals:

- Provide a mechanism and tools to improve the role of paramedics in the overall care process
- Standardized processes for paramedics
- Improve patient outcomes by jumpstarting the care process
- Shifting focus from patient transport to patient-centred care
- Alignment with health systems

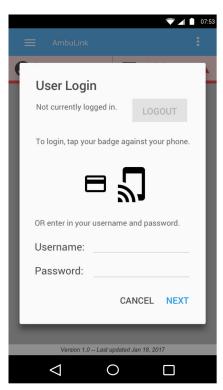


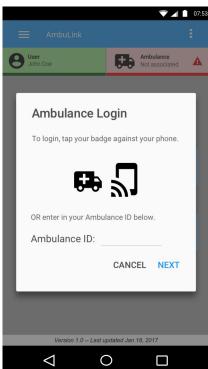


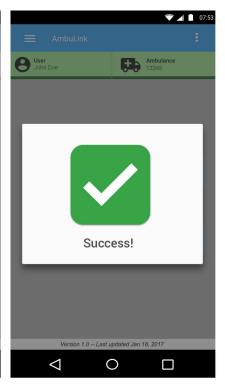
Patient-centered support tools for ambulance crews (both air and terrestrial)

- Best practice decision support tools
- Real-time driving and emergency dept wait times
- Medical records integration
- Real-time link to dispatch (E-Comm) and EDs
- Pre-hospital Canadian Triage Acuity Scale (CTAS) score calculator
 - Feeds emergency dept dashboards





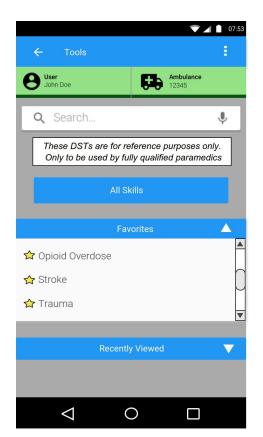


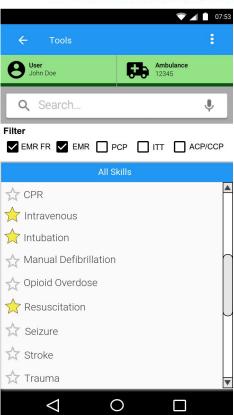


Authentication and association is simple:

- Tap to log in via NFC
- Ambulance and User logins available

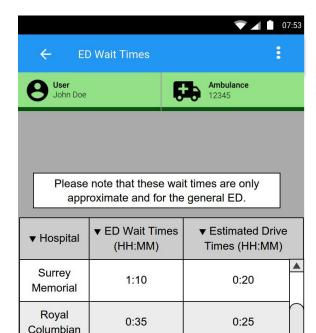






Decision Support Tools:

- Guided tools and workflows to assist paramedics
- Provides standard references for paramedics to view and use



0:15

2:00

Last updated: 15 minutes ago

 \circ

0:40

0:35

Langley

Memorial

Vancouver

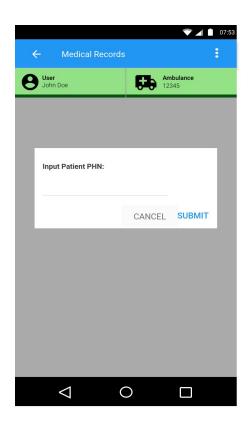
General

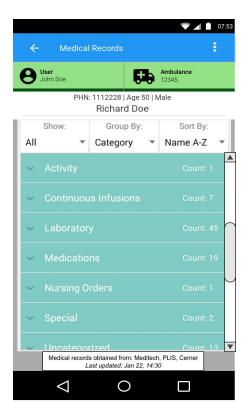


ED Wait Times:

- Wait times for all ED departments
- Includes drive times to each ED
- Includes all hospitals, regardless of HA



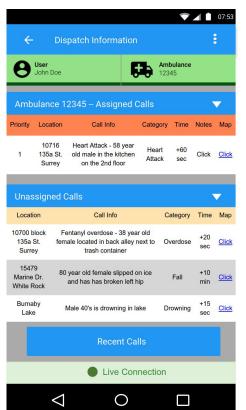


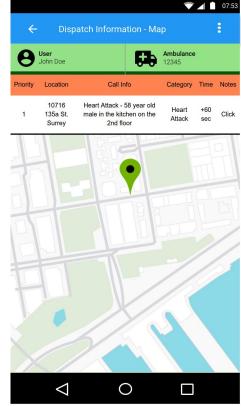


Medical Records

- Unified Medical Records, pulled in from all interfaced systems (Meditech, Cerner, PLIS, PARIS,etc.)
- Ideally also include GP medical record systems.

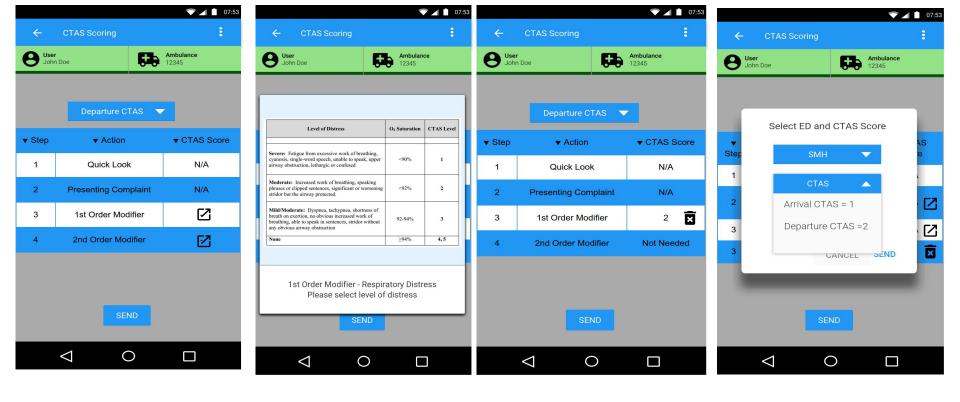






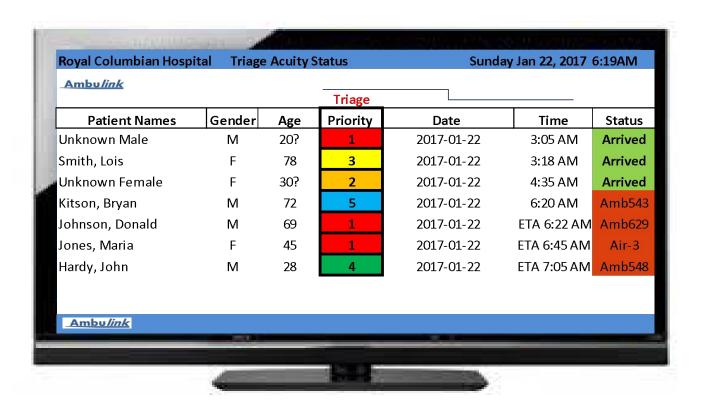
Dispatch Information:

- Provides key dispatch information, such as specific location information.
- Links to map which can provide GPS directions



Canadian Triage Acuity Scale (CTAS):

- Ability to input Arrival and Departure CTAS scores (along with any additional scores)
- Built-in 1st and 2nd order modifiers
- Ability to select ED and CTAS score



Receiving Emergency Department Dashboard



Data required for Ambulink:

- ED Wait Times
- Medical Records Interface
- Decision Support Trees
- CTAS Scoring modifiers

Challenges Moving Forward:

- Interface with all discrete Medical Record systems, from all HAs, and all systems (including GP systems)
- Obtaining and processing all the data from different HAs



Long Term:

- Since this application is platform agnostic and has the ability to interface with downstream systems, there is potential to interface with any system
- Can be customized with organizational specific tools and functions

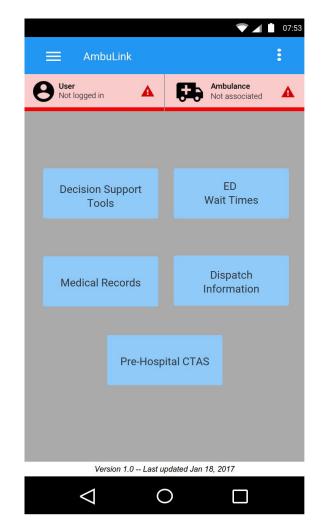


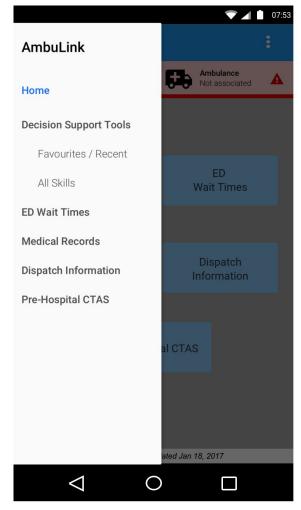
Q and A

Ambu link

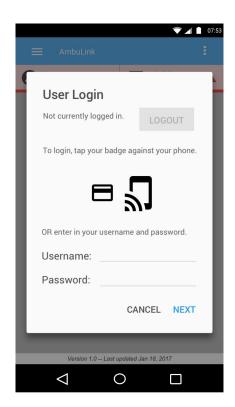
Appendix - Prototype Screenshots

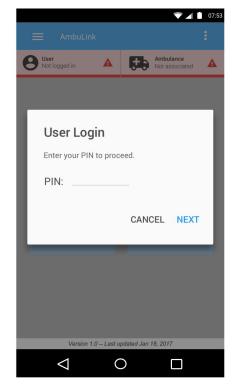
Home Screen

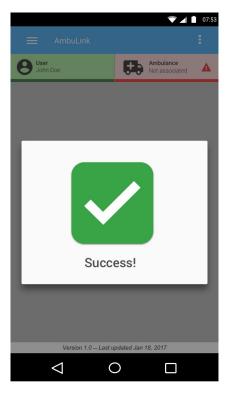


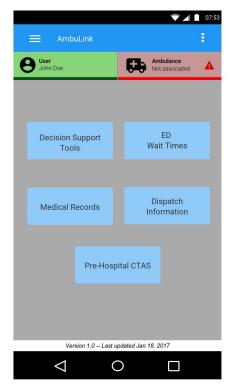


User Login



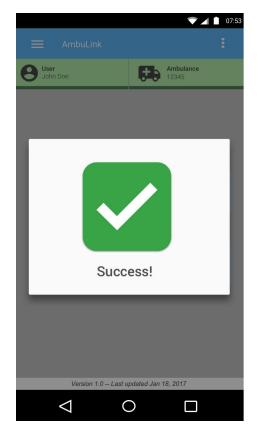


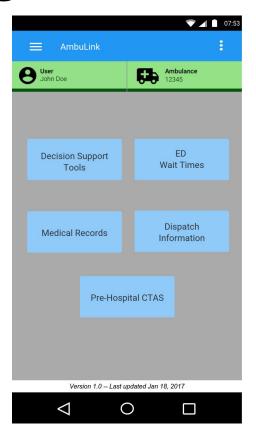




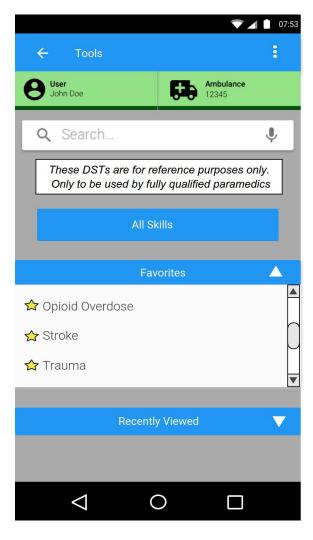
Ambulance Login

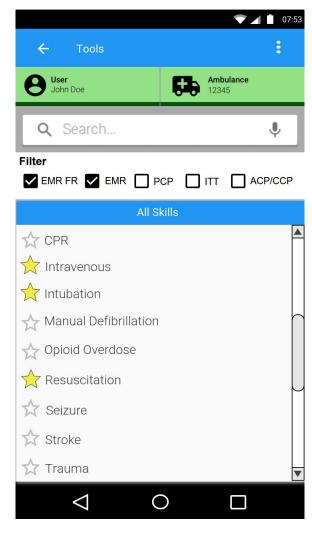


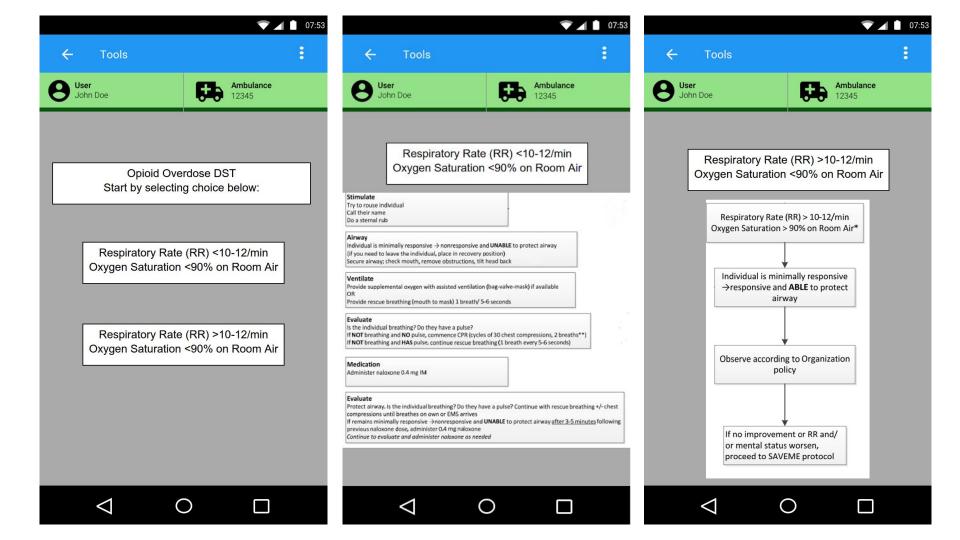


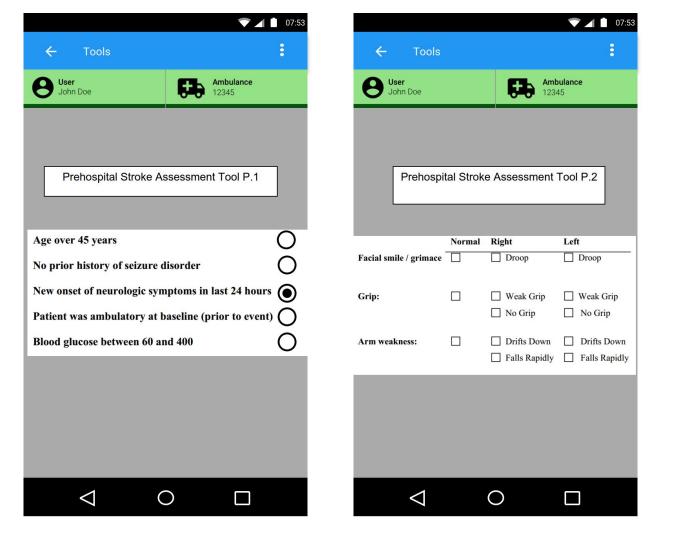


Decision Support Tools

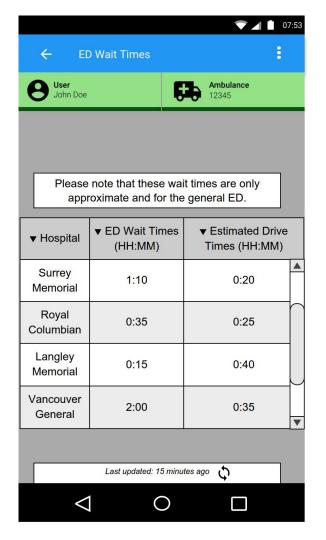




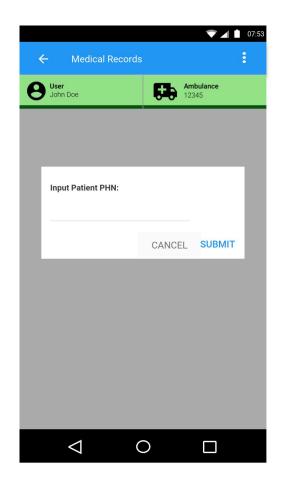


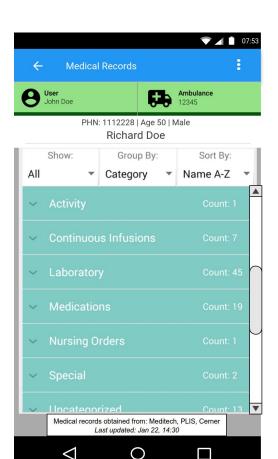


ED Wait Times



Medical Records





Dispatch



