



triige

Tracking Patient Triage



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R Class of 2020

Frontend + UI/UX
Developer



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R Class of 2022

Backend
Developer

Problem

- Mass casualty incidents: multiple injury vehicle accidents, mass shootings
- Assess the severity of each victim's condition & assign each person a priority for immediate treatment.
- Uses inefficient methods (card system)

Existing Alternatives

- Data captured via a paper “tag” or card system

The image shows two examples of the TRIAGE TAG form. The left form is for a patient with a 'DECEASED' status, showing a 'DECEASED' tag and a 'DECEASED' tag. The right form is for a patient with a 'DECEASED' status, showing a 'DECEASED' tag and a 'DECEASED' tag.



Why Not?

- RFID/NFC-- ER sensitivity + limited data storage
- Facial Recognition-- unethical/inconsistent
- Print Tags on-site-- might break/stop working

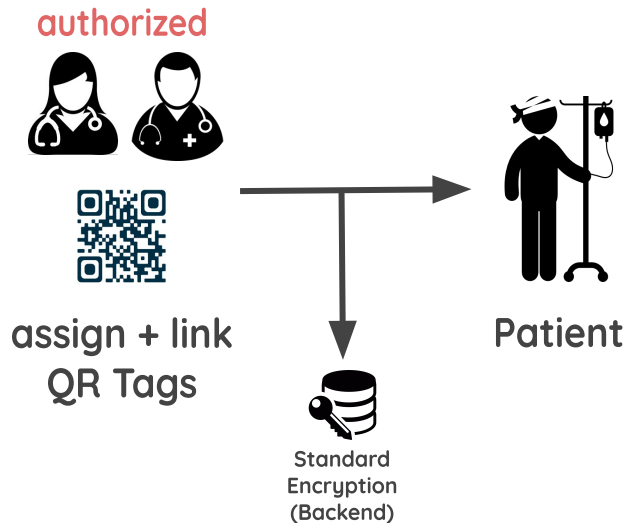
Criteria 5: Not easy to integrate for many reasons: can't share data on the fly, have to install separate app on smart watches, web apis aren't available.



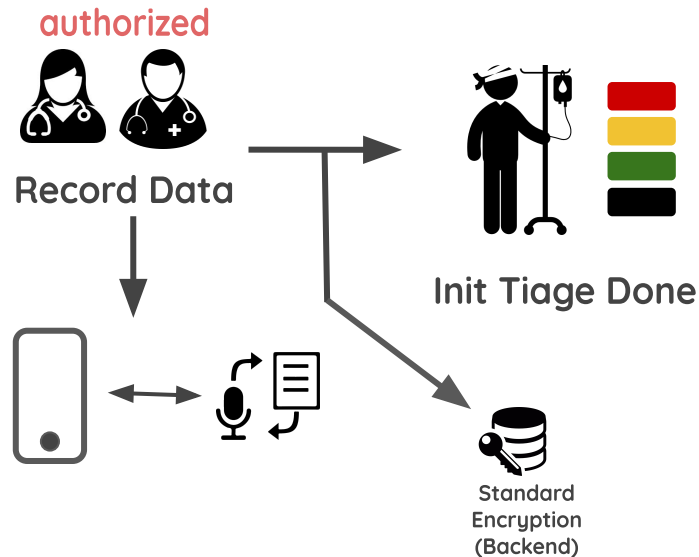
Customer Segments

Emergency Responders

Initial Phase

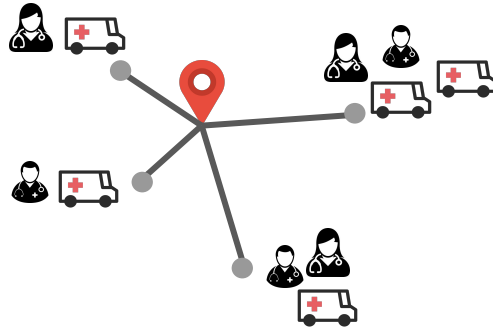


Second Phase



Customer Segments

Incident Commander (IC) / Hospitals



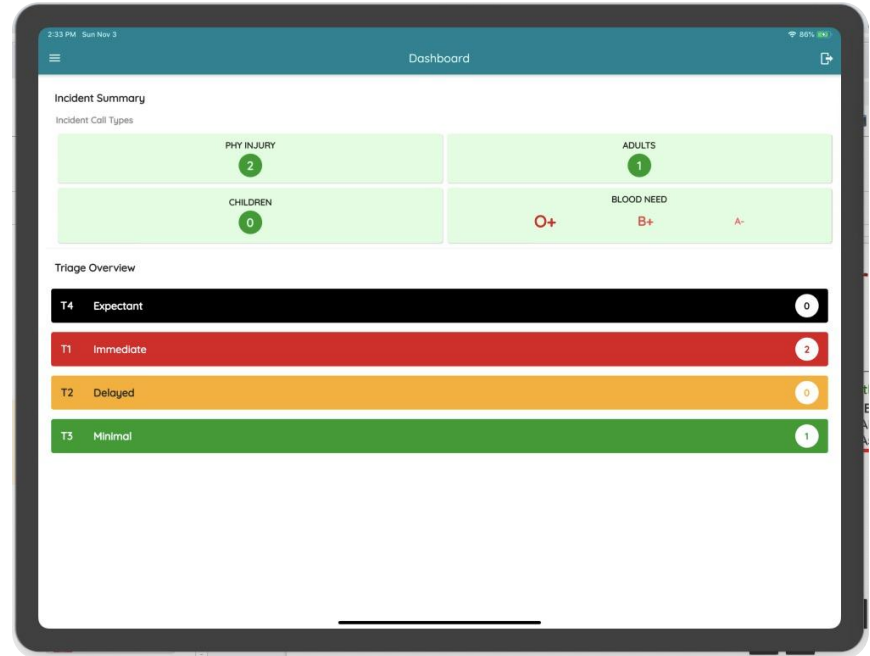
Resource
Management



LIVE

Real-Time Updates

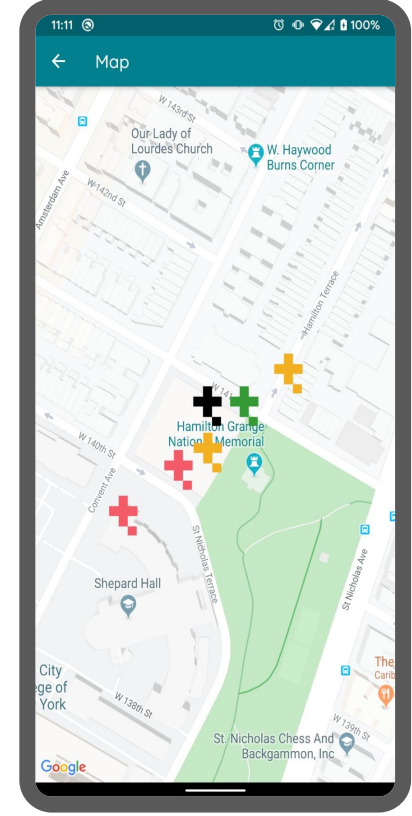
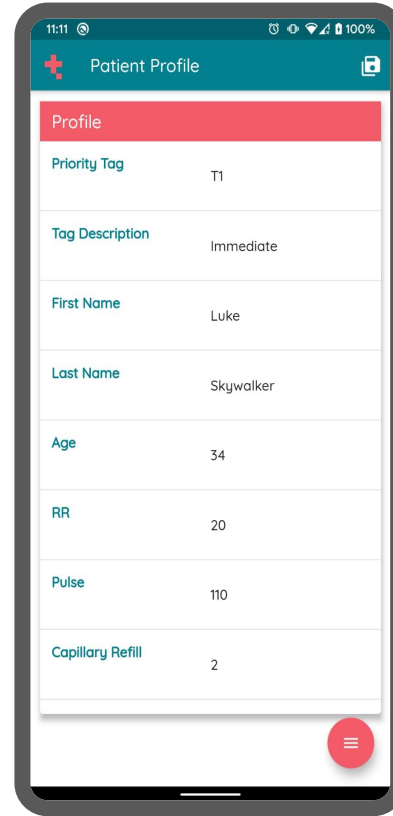
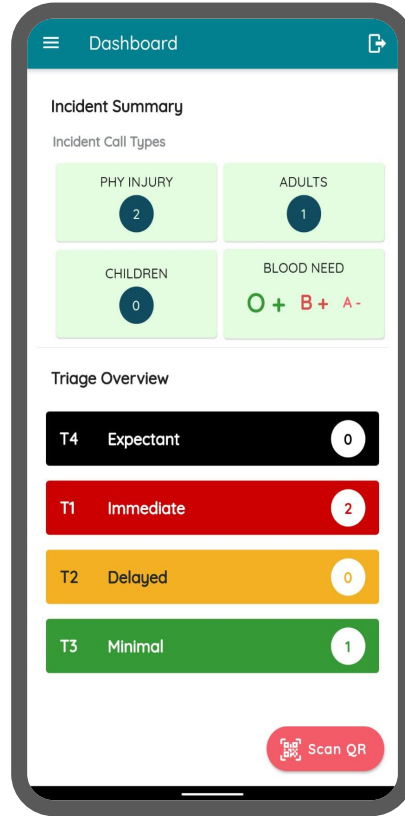
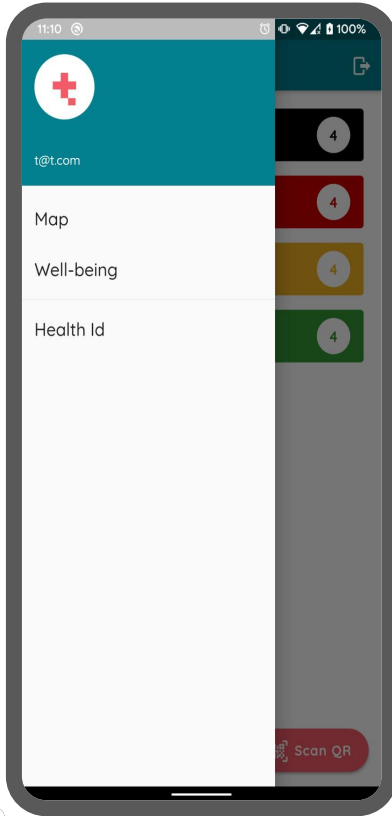
authorized



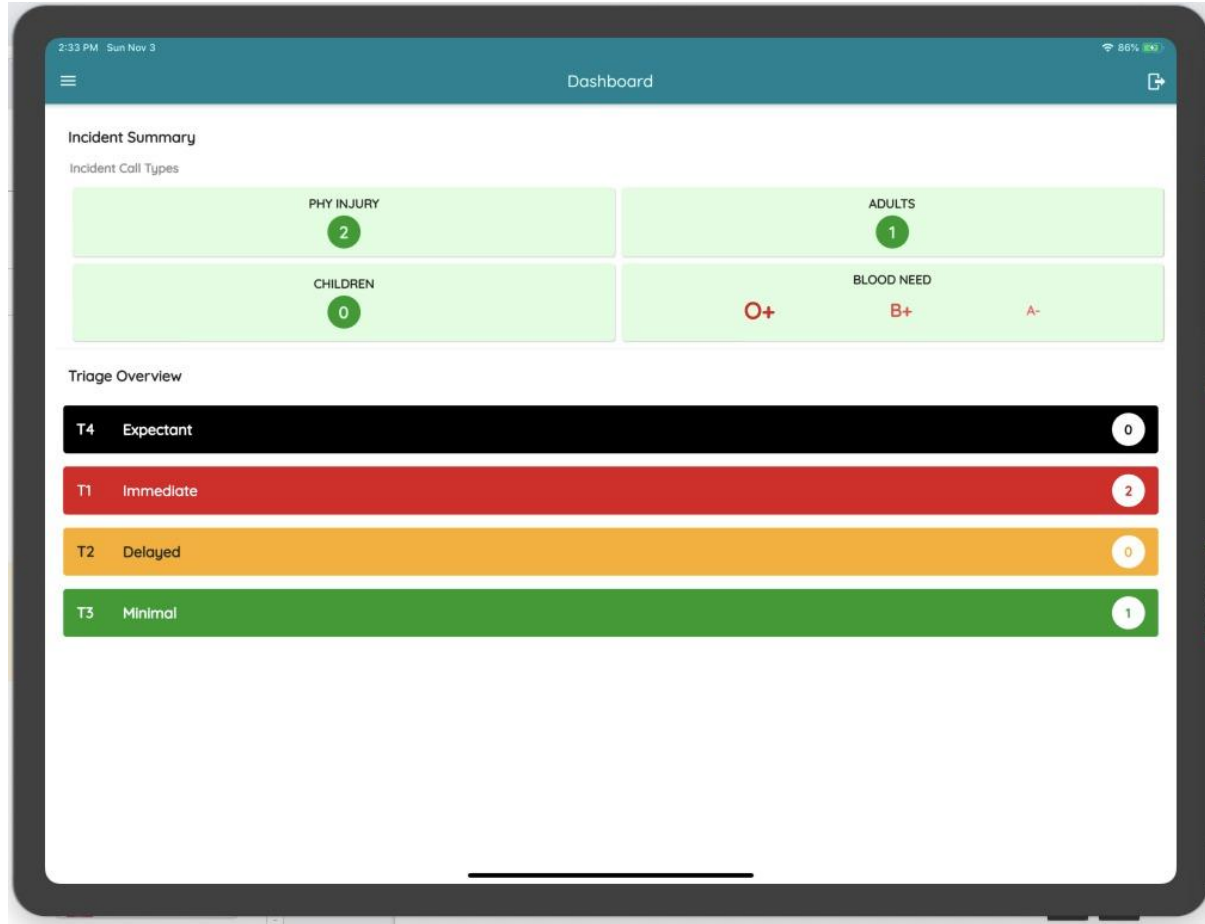
DEMO



Screenshots



Screenshots



HOW IT'S BUILT



Tech Stack

- **FrontEnd:** Flutter
QR Tags (Encrypted Codes -- SHA 3 - 256)
- **BackEnd:** SQLite DB + IBM Cloud + Flask
Google Maps API / ML Voice→Text
IBM Cloud

Source Code: <https://github.com/dhruvilp/triige>



Data Collection

Patient ID*
Last Name*
First Name*
Age*
Respiratory Rate (RR)*
Pulse*
Capillary Refill* (press nail- wait till blood refill)
Blood Pressure (BP)*


Initial Observations*
Priority Tag*
Location at Scene*
Time Initial Triage*

Secondary Observations*
Priority Tag*
Triage Location*
Time Second Triage*
Transport Method*
Transport To*
Time of Transport*

Medical ID Data:

Blood Type
Medical Conditions
Allergies & Reactions
Medications
Weight/Height
Emergency Contact(s)



Michael Cavanna April 1, 1976 (43 years old)	
Medical Conditions Hypertension	
Allergies & Reactions Peanuts	
Medications Lisinopril (10mg by mouth once a day)	
Blood Type O+	
Weight 170 lb	
Height 5' 8"	
EMERGENCY CONTACTS	
spouse Karina Cavanna (650) 555-3369	



THANK YOU

