# Intern Innovation Challenge



Smart Triaging and Rescue System



Dallas Team 3 Naren Alluri, Derek Fu, Faisal Hasan, Sai Neelanjana, and Eric Zhou



650,000

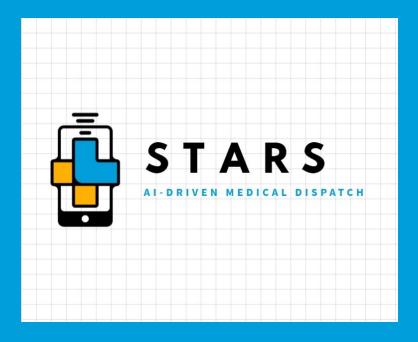


# **Problems of Current Dispatching Service**

- Long and continuous process
- Small mistakes lead to improper diagnosis
- On average, 10,000 more lives could be saved every year if the response times were to be reduced by 1 minute



# **Smart Triaging and Rescue System**





## **Team Members**



Naren Alluri Software Engineer Intern Developer



Derek Fu
Data Analyst Intern
Developer/Scrum Master



Faisal Hasan Network Engineer Intern Product Owner



Sai Neelanjana
System DevOps Engineer Intern
Scrum Master



Eric Zhou
Software Engineer Intern
Developer/Product Owner



# Agenda

- 1. Introduction
- 2. Target Users of STARS
- 3. Design Approach
  - User Flow, Prototypes, &
     Software Used
  - Dataset Creation & Al Workflow
- 4. Product Demo

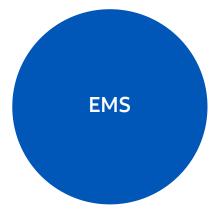
- 5. Benefits & Impact
- 6. Next Steps and Enhancements
- 7. Challenges
- 8. Q&A
- 9. Appendix



## **Target Users**



They are the ones that emergency medical 911 calls get transferred to



This includes EMTs and or Paramedics that respond to dispatch calls



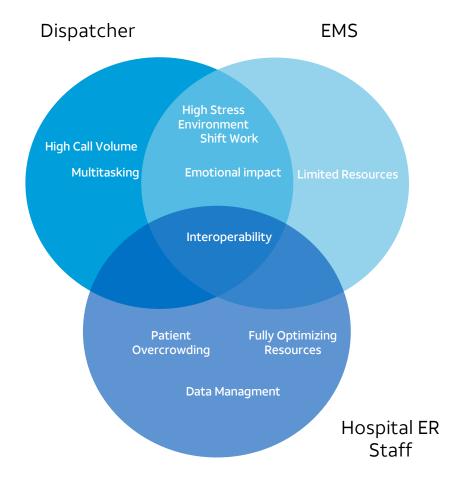
This team in the Emergency
Room is responsible for
connecting with the EMS to get
the patient appropriate care



## **User Personas**

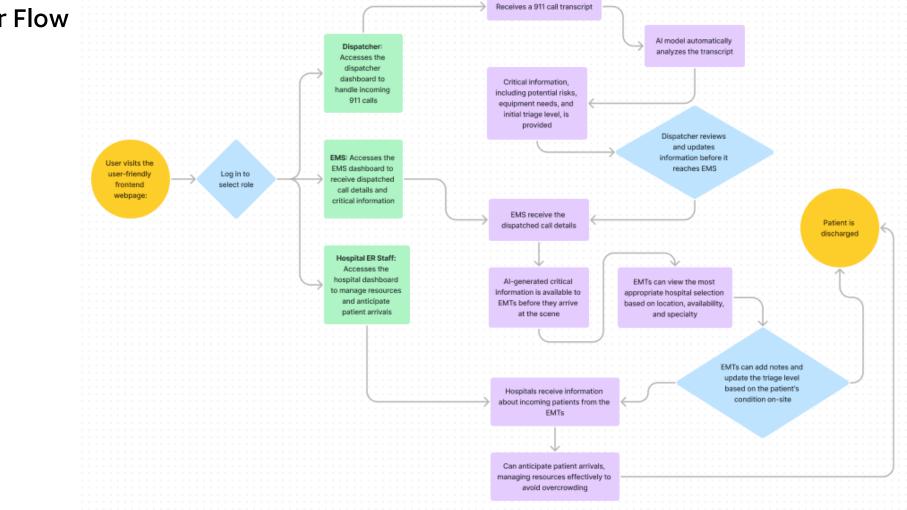
## **Pain Points**

- While there are similarities, there are also things unique to each role
- Decided to make dashboard with role specific views





## **User Flow**

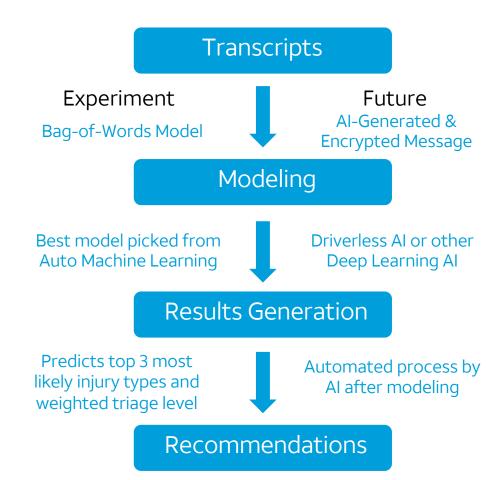




## Al Workflow

#### Fake Datasets Generated for The Experiment

Dataset Name	Information Contained
Personal Information	Basic personal information
Patient Data	Patient names, locations, scripts, and injury types
Recommended Actions & Equipment	Al-generated recommended treatment and equipment for different injury types
Hospital Data	Hospital locations and their specializations



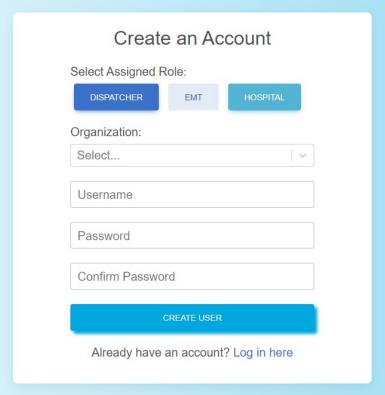
Treatment & equipment recommendations and nearest matched hospital



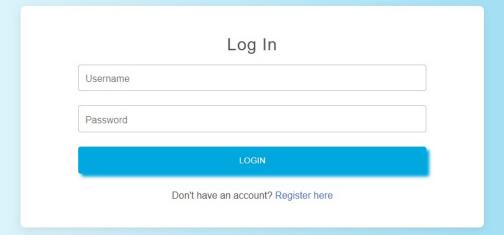
# **Product Demo**

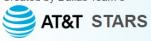






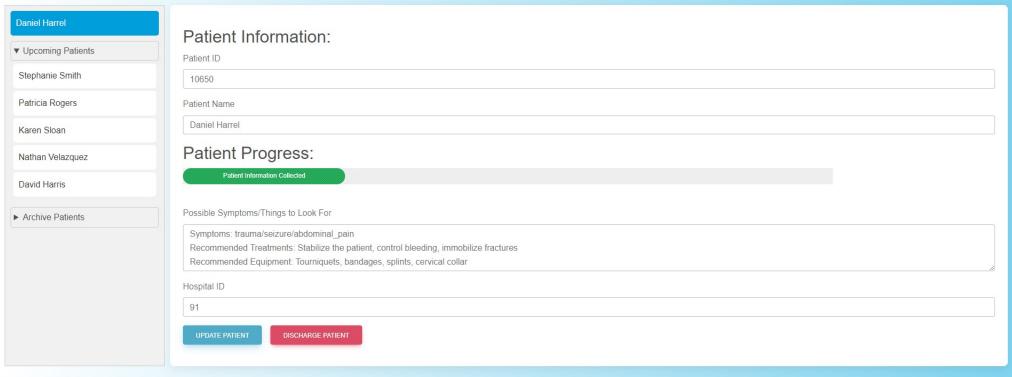






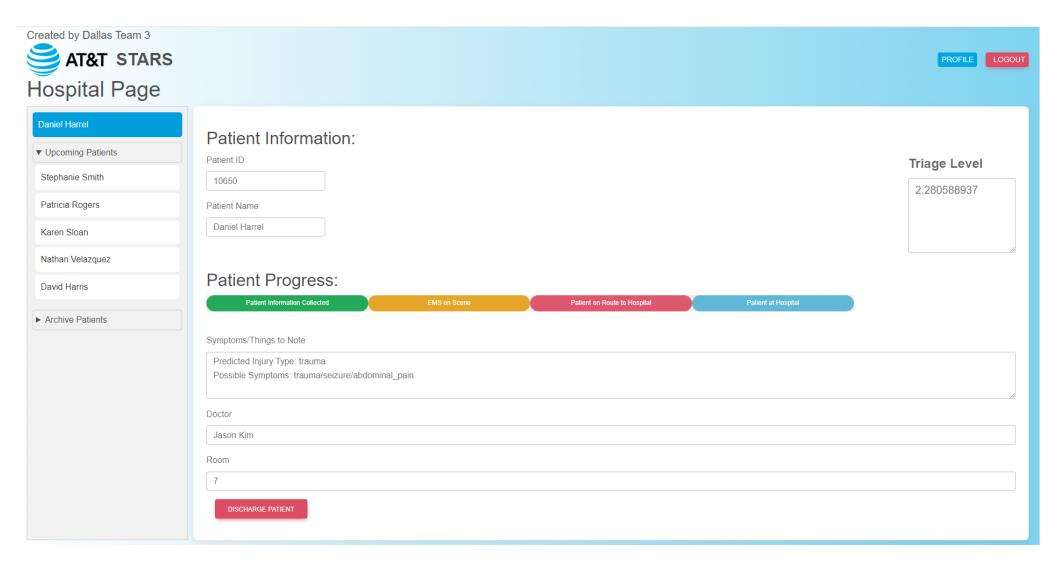
#### PROFILE LOGOUT

## Dispatcher Page



Created by Dallas Team 3 STARS PROFILE LOGOUT **EMT** Page Patient Information: ▼ Upcoming Patients Patient ID **Triage Level** Stephanie Smith 10650 2.280588937 Patricia Rogers Patient Name Daniel Harrel Karen Sloan Nathan Velazquez **Patient Progress:** David Harris ► Archive Patients Notes Notes From Dispatcher: Symptoms: trauma/seizure/abdominal\_pain Recommended Treatments: Stabilize the patient, control bleeding, immobilize fractures Recommended Equipment: Tourniquets, bandages, splints, cervical collar

> Hospital 91



# Benefits and Impact for AT&T

- More efficient and standardized approach to dispatching
- Reduces stress for personnel and minimizes life-threatening mistakes
- Enhances FirstNet's value and competitiveness
- Generate additional revenue streams
- Establish AT&T as an industry leader in the emerging field of Al integration for emergency response





## **Next Steps and Future Enhancements**

- Integrate with FirstNet's reliable network
  - Prioritize Data Transmission
  - Enhance Interoperability
  - Leverage advanced communication technologies
- Enhance AI-driven solution with real-time video and location tracking
- Cross-Platform Applications



# Challenges

- Privacy/Data Security
- Data Quality and Availability
- Integration with Existing Systems
- Algorithmic Bias







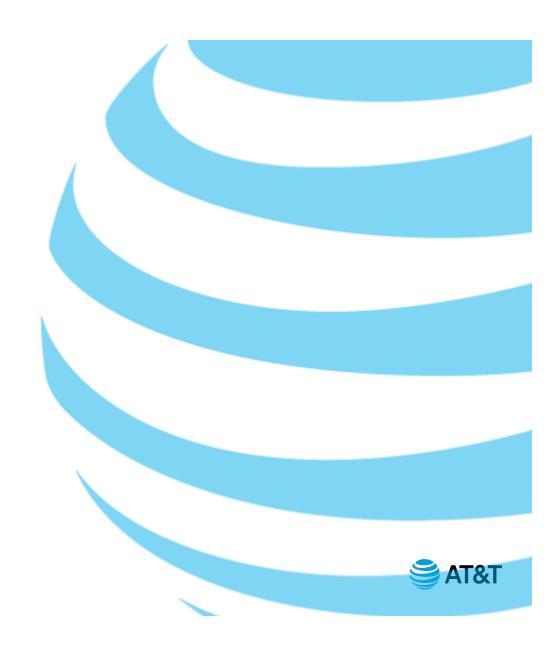
# Thank You! AT8T



For further information reach out to sn2186@att.com or tf3894@att.com

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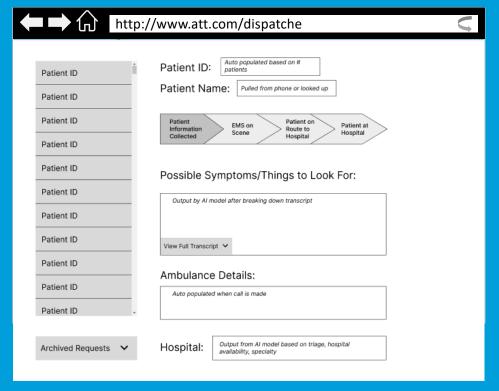


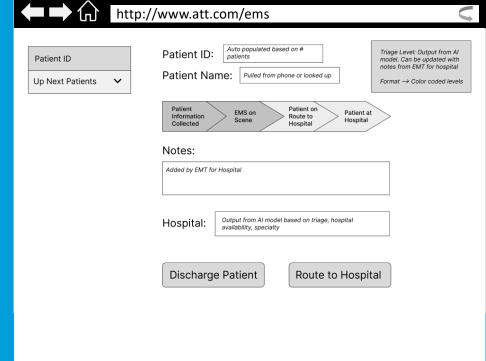
# **Appendix**

Low Fidelity Prototypes



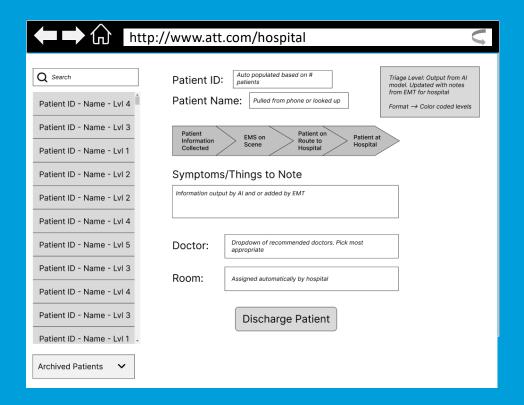
## **Low Fidelity Prototypes**







## **Low Fidelity Prototypes**



- All three dashboards have the same base design
- There are key features for each of the three roles
- Key is to make it as user friendly as possible

