## Life-Stand

A video enabled emergency fall detection and alert system for the sick and elderly





## The Team

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## How is this project relevant?

#### 1 in 4

One in four Americans aged 65+ falls each year

#### Every minute counts

Every 11 seconds, an older adult is treated in the emergency room for a fall; every 19 minutes, an older adult dies from a fall

#### Medicare?

The financial toll for older adult falls is expected to increase as the population ages and may reach \$67.7 billion by 2020.



**Source: National Council of Aging** 





LifeStand

Smart Alert: Family/ emergency contact Notification service

911 - Emergency Notification

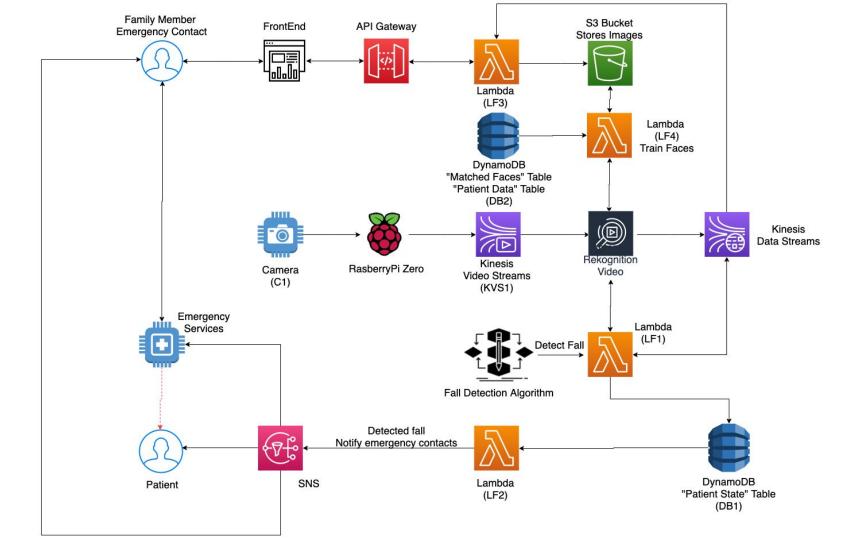
4 Multi user UI with LIVE video



# Architecture Design

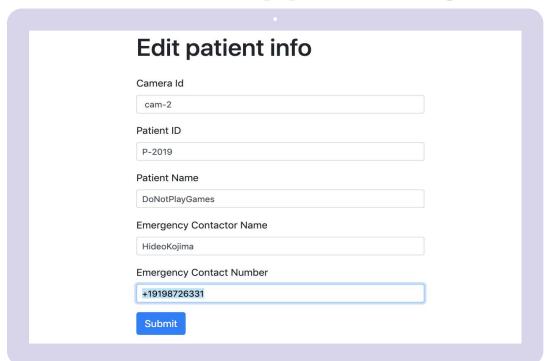
LifeStand's Core Components







### Easy patent registration.

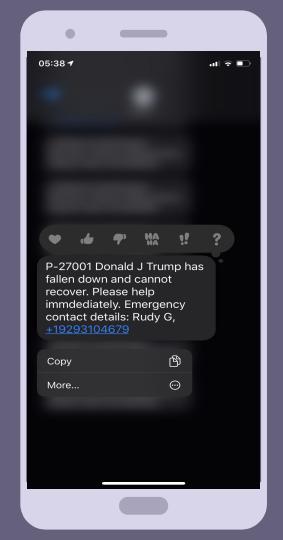




# The Fall Detection Algorithm

- Machine learning inspired algorithm.
- Using AWS rekognition and open CV library





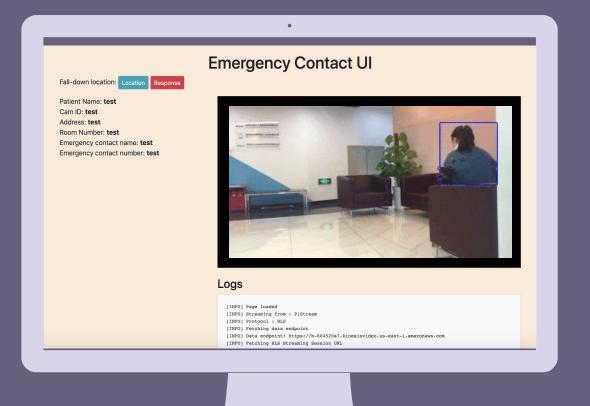
## Mobile Notifications

Emergency Services will receive a notification with the patient's name, id, his emergency contact name and phone number.



## Emergency contact and Family Member UI

- Live video feed
- Google Map for location
- Patent medical records
- Quick access to 911 call button
- Real time logging



# **Emergency services API**



- Customizable API to contact emergency services.
- Provides medical record for first aid
- Provides accurate location with directions



## Thanks!

We will now take all your questions after the DEMO



