## CUEMEIN

RUNTIME TERROR:

Mason Corey, Javier Jimenez, Leena Shankar, Juan Mendoza-Martinez, Armaan Shah





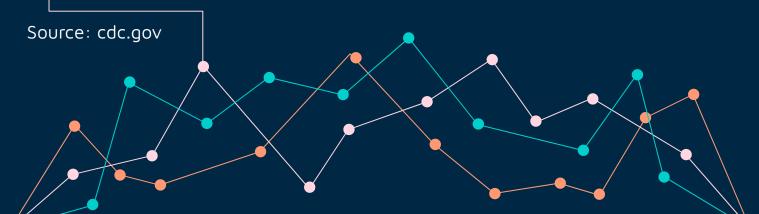


"Special Olympics is a global movement that unleashes the human spirit every day around the world through the joy of sport."

Special Olympics

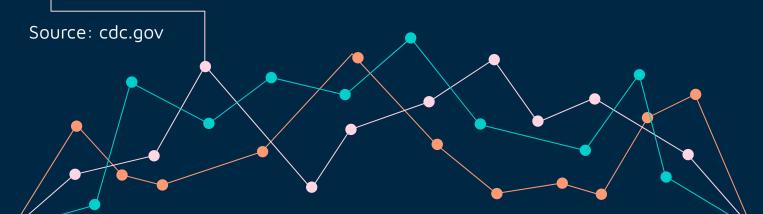
# 26%

of all U.S. adults have some type of disability



# 10.8%

of these disabilities are cognitive-based



#### **Problems**

COVID → virtual communication

 People with certain intellectual disabilities struggle with online communication

 No existing online tools that cater to intellectual disabilities

### Solutions

Accessibility & Usability

Emotion Detection



### **Emotion Detection**

- Facial Expression Recognition
  - Video conferencing
  - Real-time sentiment analysis

- Emotion Recognition via Speech
  - Audio conferencing
  - When cameras are unavailable



### Accessibility & Usability

- Simple navigation
  - Tab navigation & Large UI
- UI rooted in research
  - Accommodate for ASD
- Reaction UI
  - Improve Communication









## Meet the Team

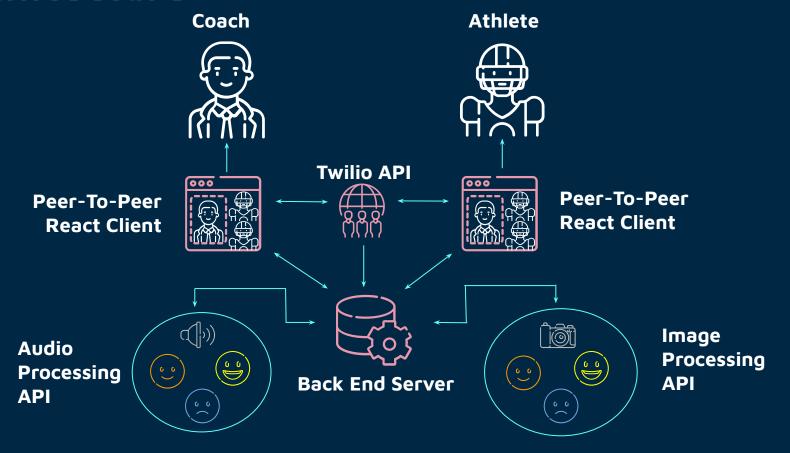
Coach: Jerry

• Athletes: Larry and Mike

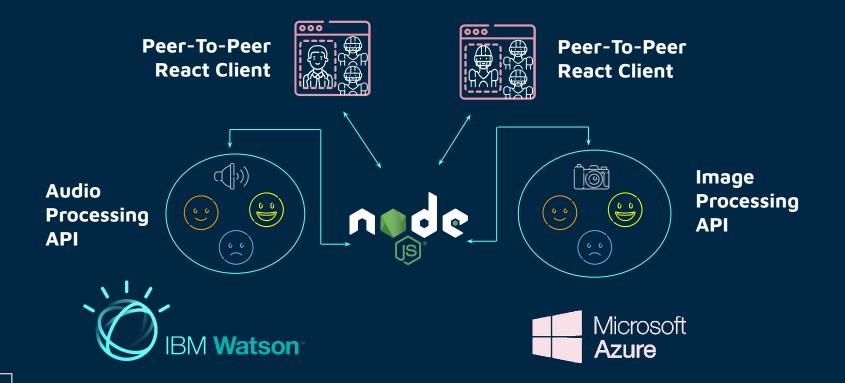




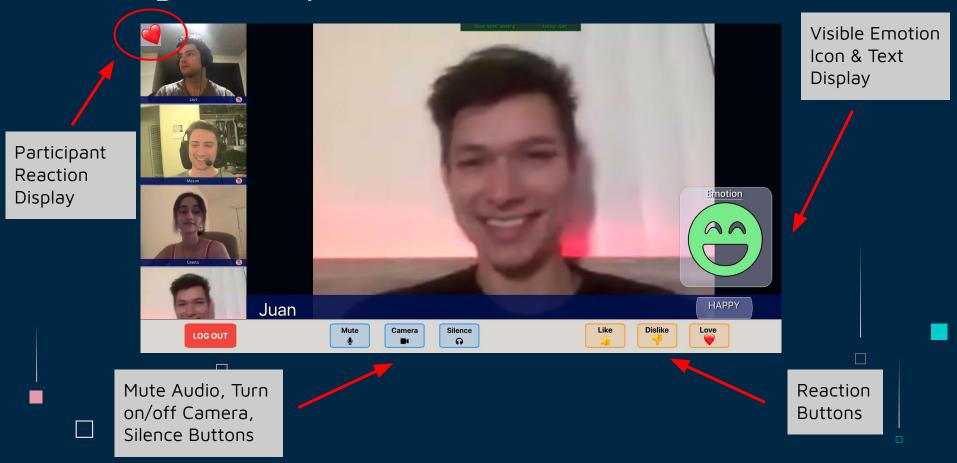
### Architecture



### **Backend Microservices**



### Strengths & Improvements





## THANK YOU

Special thanks to the Special Olympics, along with our mentors: John, Nilesh, Meg, Anne, Nidhi, Joe, and Vinita!





# Questions?