#### Virtual Reality Telemedicine

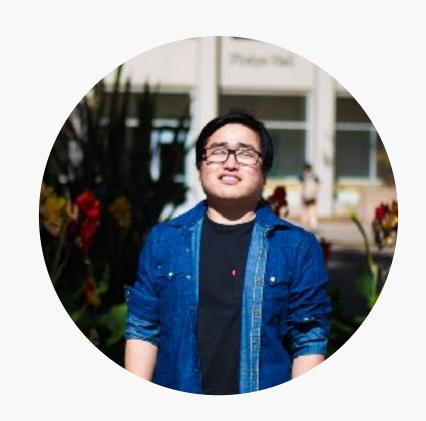
#### Team Vegetable & Rice





#### UC SANTA BARBARA

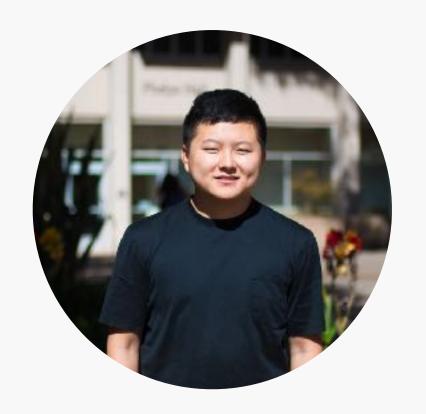
#### Meet the team.



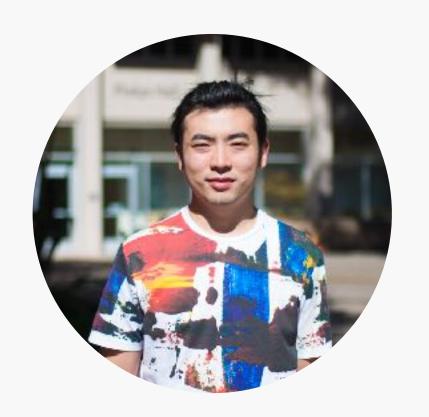




Chan Kenneth
UX Designer



Zhu Jinfa Unity Engineer



Wan Shouzhi
Unity Engineer

### Problem Demystified. Drawbacks of traditional solutions.

# The screen is too small to work with



# Too much data to deal with

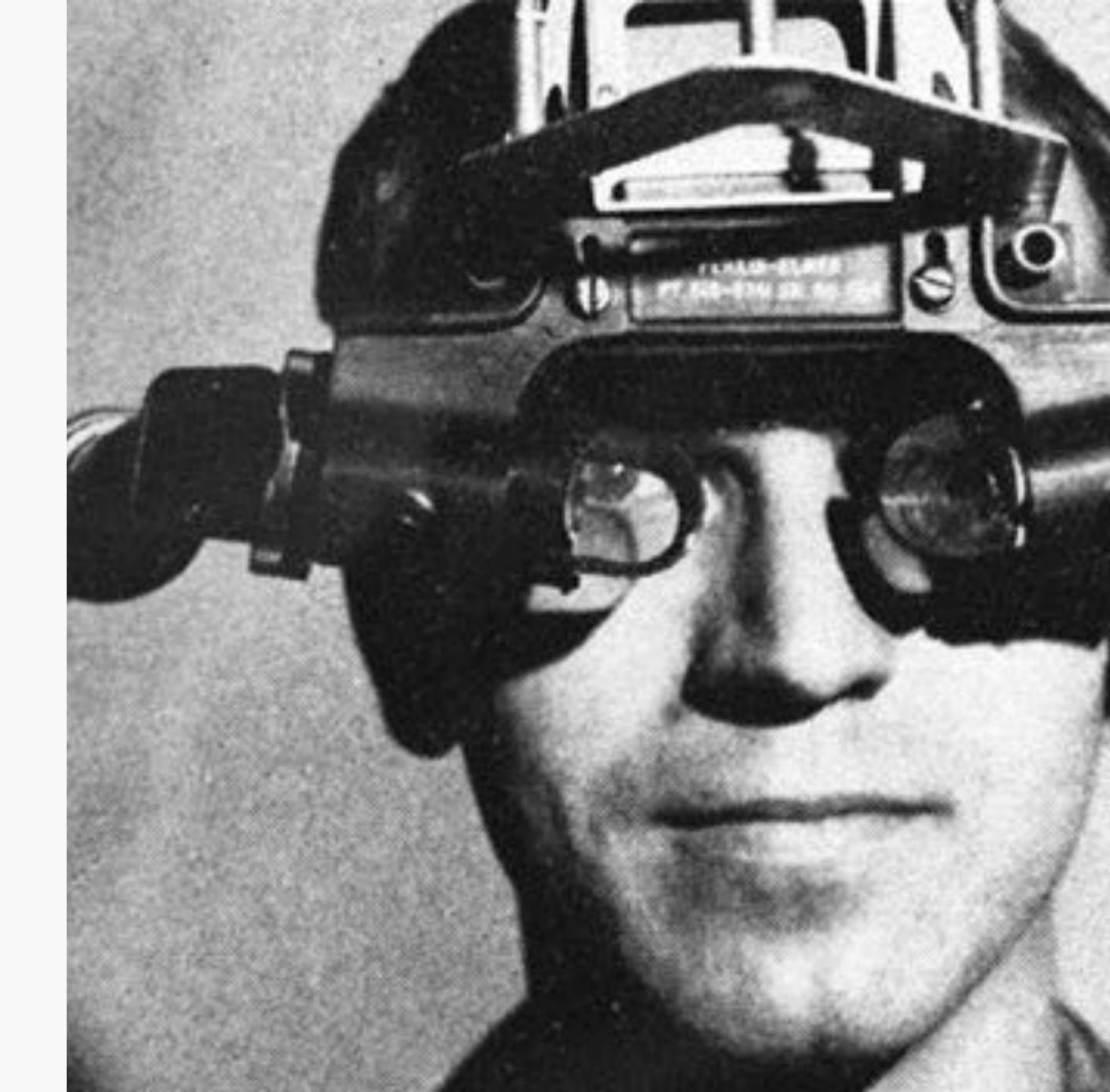


#### Productivity.

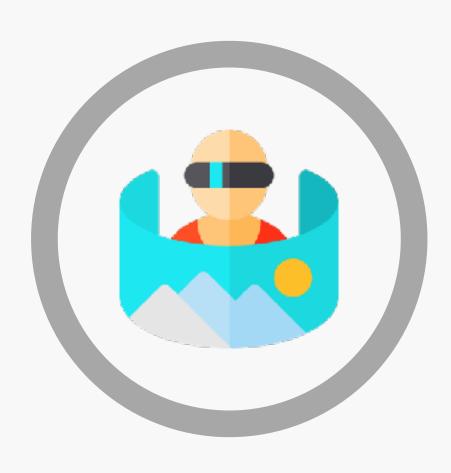
### Our Solution. An virtual reality platform.

#### Our goal...

is to explore the potential of VR in telemedicine, to create a more productive and accessible user experience.



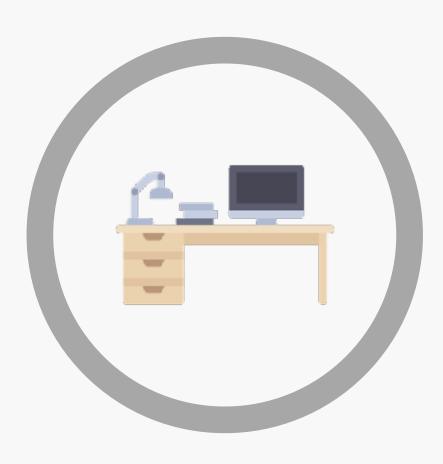
#### Design principles.



Space



Interaction



Extensibility



#### #01. Redefining **Space**

Expanding the limited screen.

Presenter Jinfa

#### Team Vegetable Rice



Working space



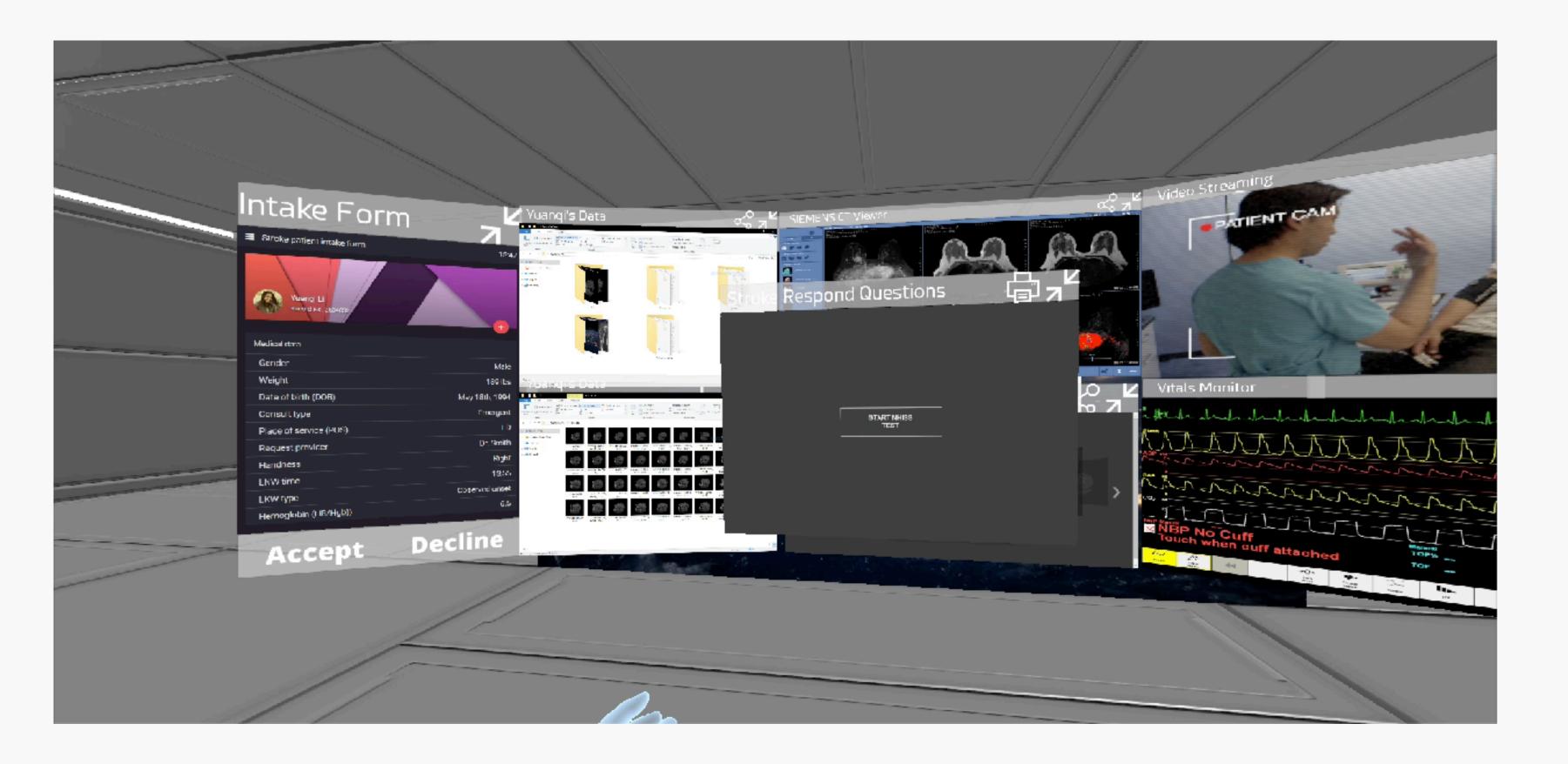
Eye space



Side space

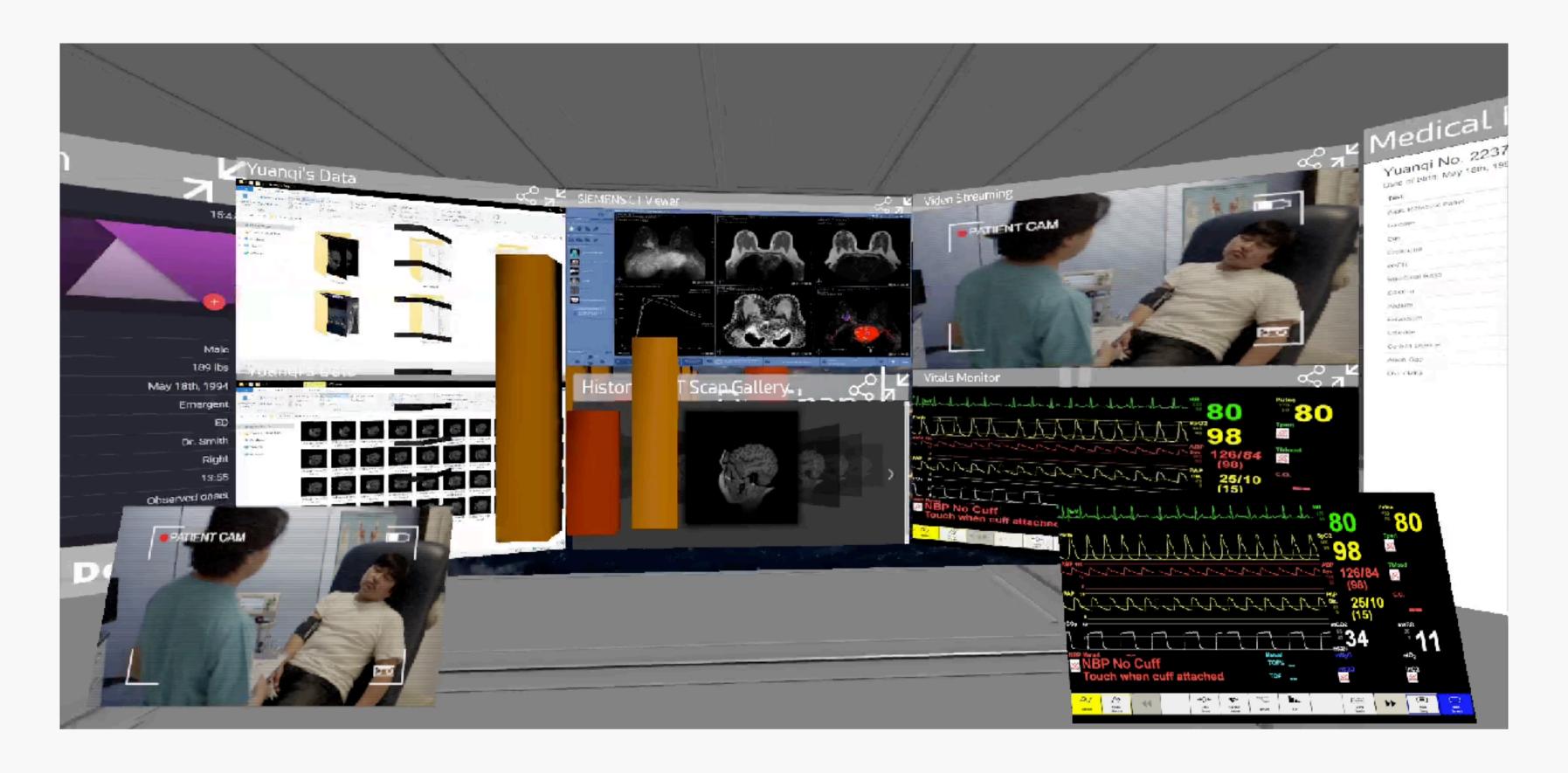
#### Working space.

A curved surface in front of you.



#### Eye space.

An area fixed to your eyes. Always on.



#### Side space.

Things that are always accessible on your side.



#### Team Vegetable Rice

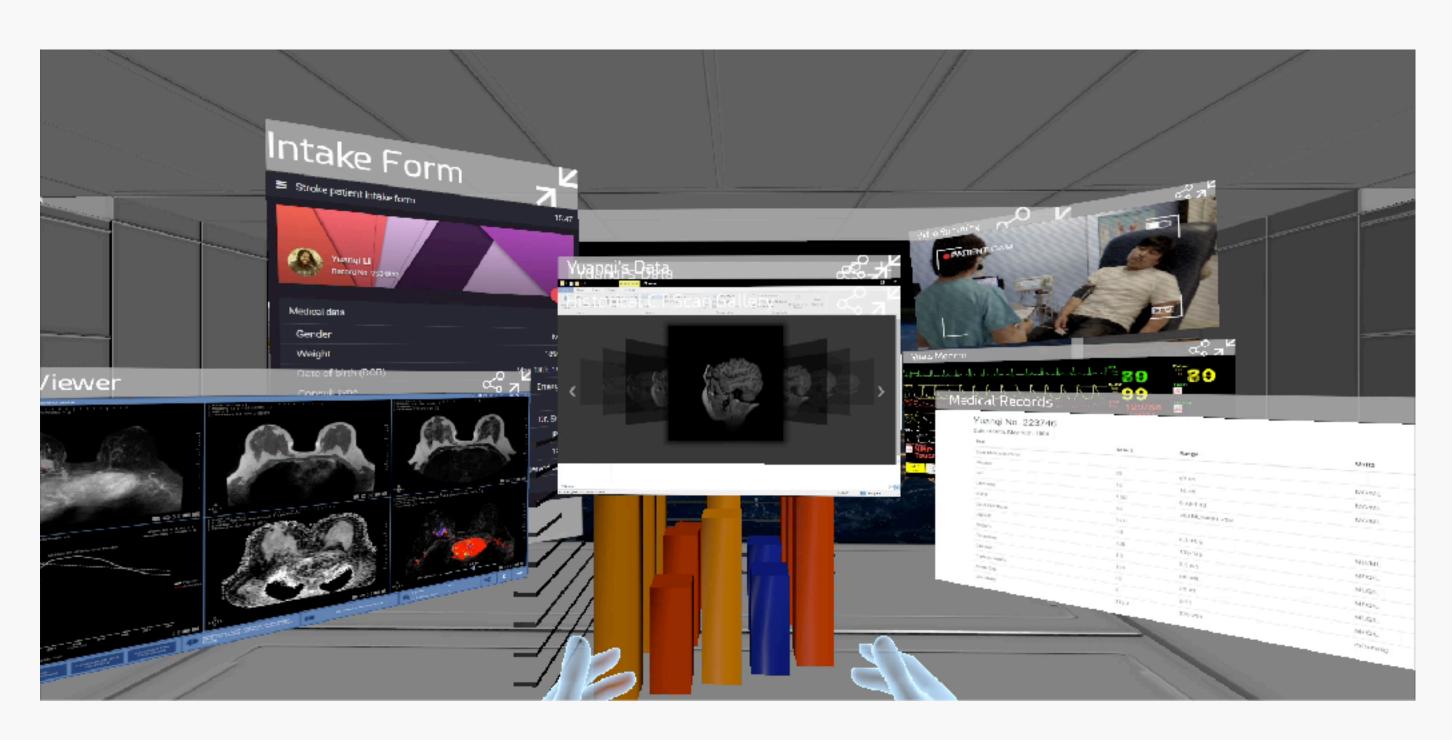
#02.
Redefining Interaction
Unprecedented, simple, and intuitive.



Presenter Kenneth

#### Hand gestures.

- Powered by machine learning, 100 samples per track.
- Push to minimize, pull to reopen, spread to reposition.





#### Controllers.

Expanding actions and possibilities.



#### Grab and resize your windows as you wish.





#03.
Redefining Extensibility

Platform vs. Application.

Presenter Shouzhi



Unity native application

Unity C#



Windows native application

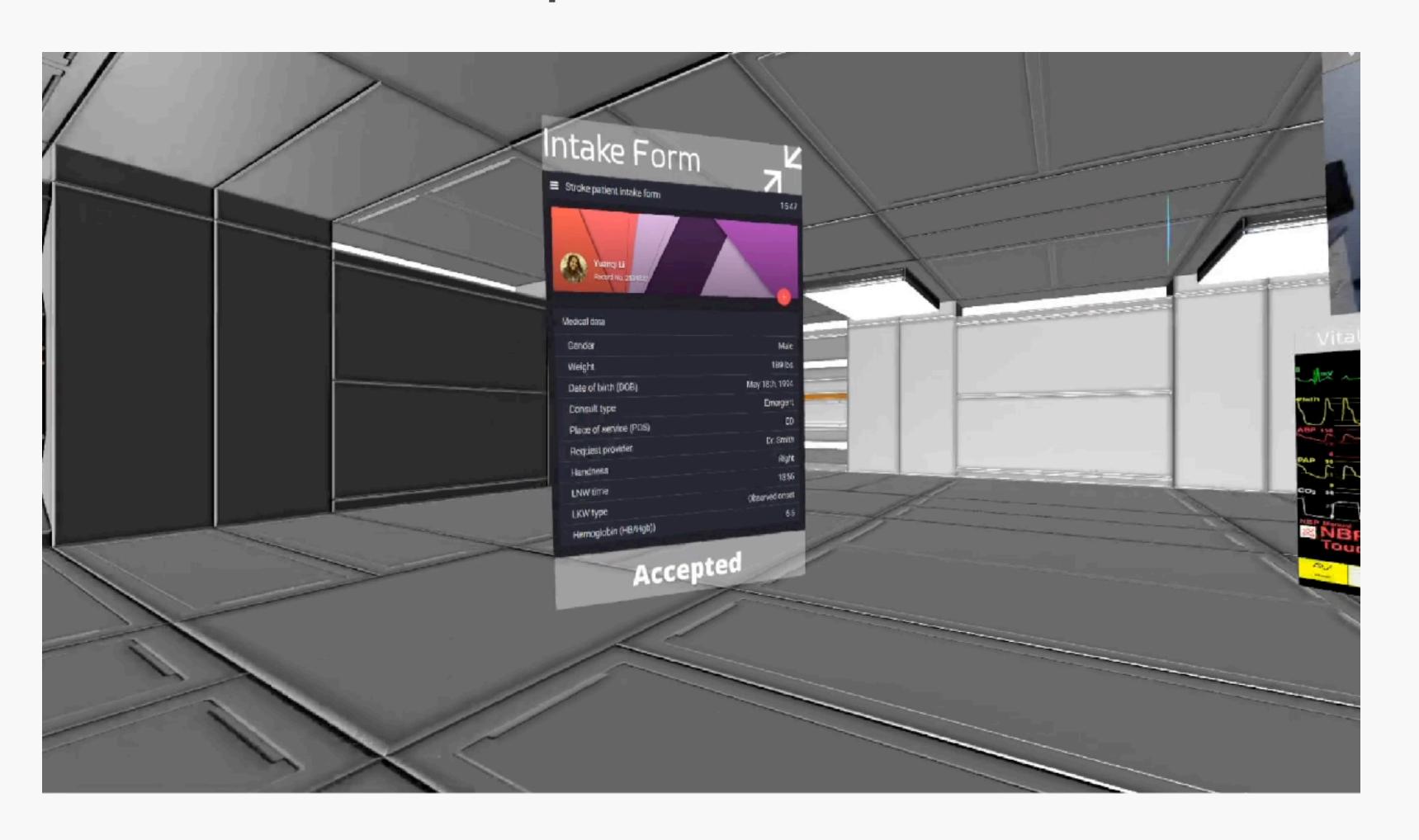
Win32 API

#### Extensibility.

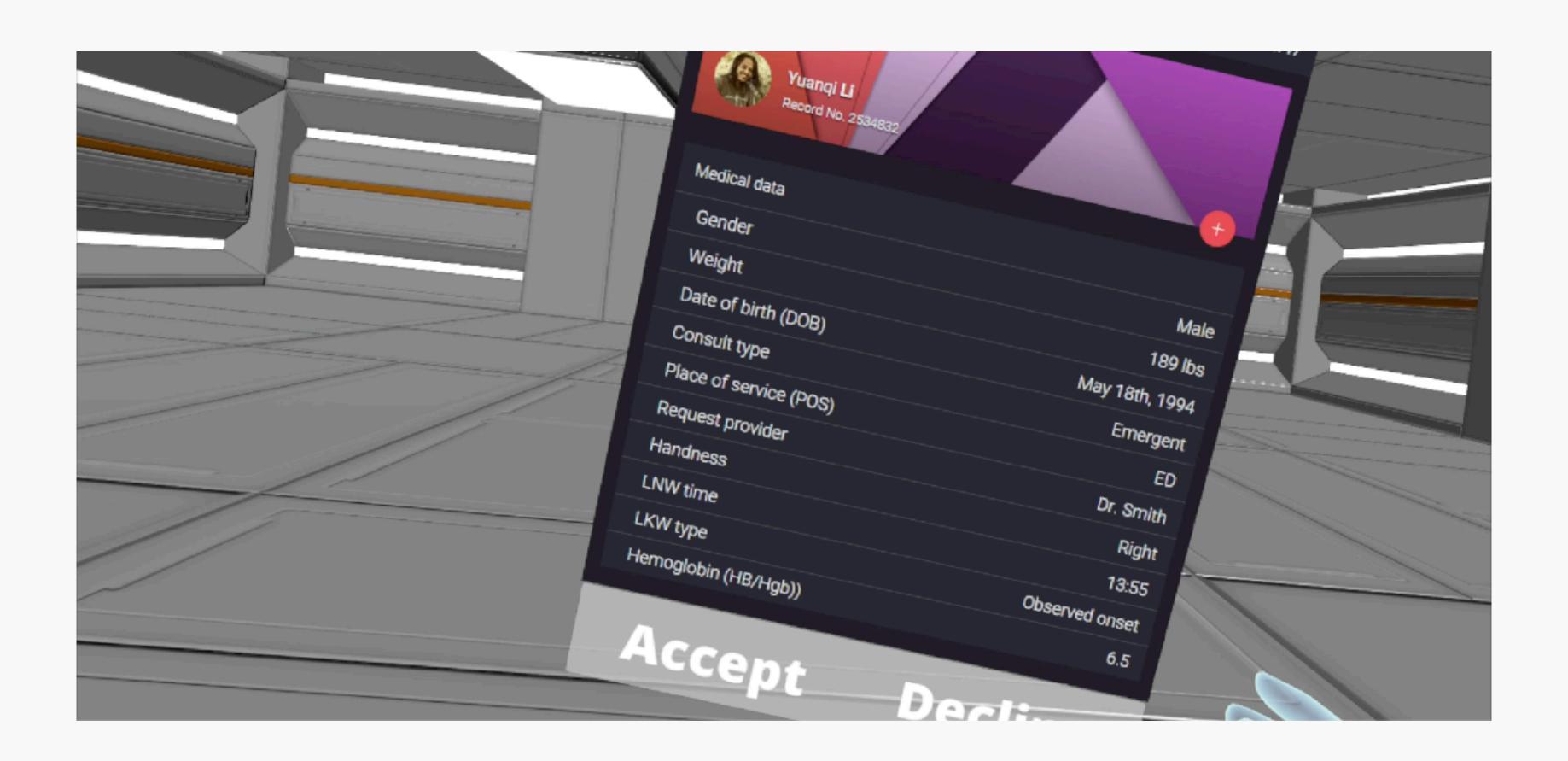


Web based application Chromium

#### Windows native plus our API.



#### Rendering web based apps.



# This is our **SOLUTION**To VR Telemedicine.

#### Future Work.

- 1. More unity native apps.
- 2. Improve graphics quality.

### Thanks Any Questions?





#### UC SANTA BARBARA