



# VCare: Virtual Reality Therapy

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# Meet the team



Neil  
Sadhukhan



Kevin  
Nguyen



Tom Nguyen



Eason Jiang



Yusong Yan





# Motivations

## 01 COVID-19 Quarantine

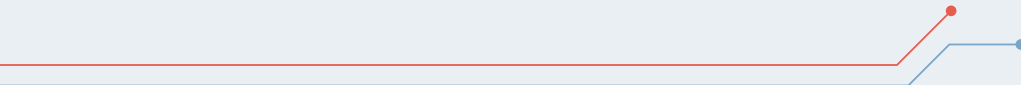
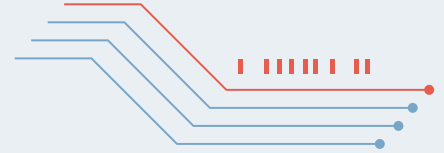
- Adults reporting symptoms of anxiety disorder: 11% in 2019. 41.4% in 2021. (NHIS, U.S. Census)

## 02 Exposure Therapy

- 60-90% patients have either no symptoms or mild symptoms

## 03 Virtual Therapy

## 04 Social Anxiety

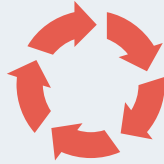


# VCare



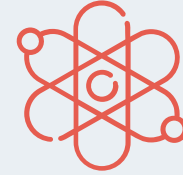
## VR Environment

Creates a controlled virtual environment where the patient can be exposed to their source of anxiety



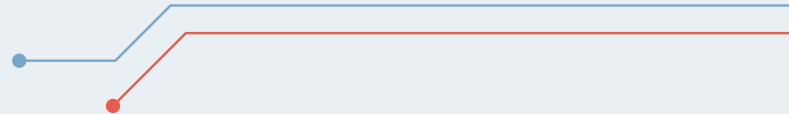
## Real-time Feedback Loop

Feedback loop that automatically adjusts the intensity of source of psychological stress



## Live transcription and analytics

Transcription and NLP to provide data to feedback loop, post-session analytics for therapist to track progress

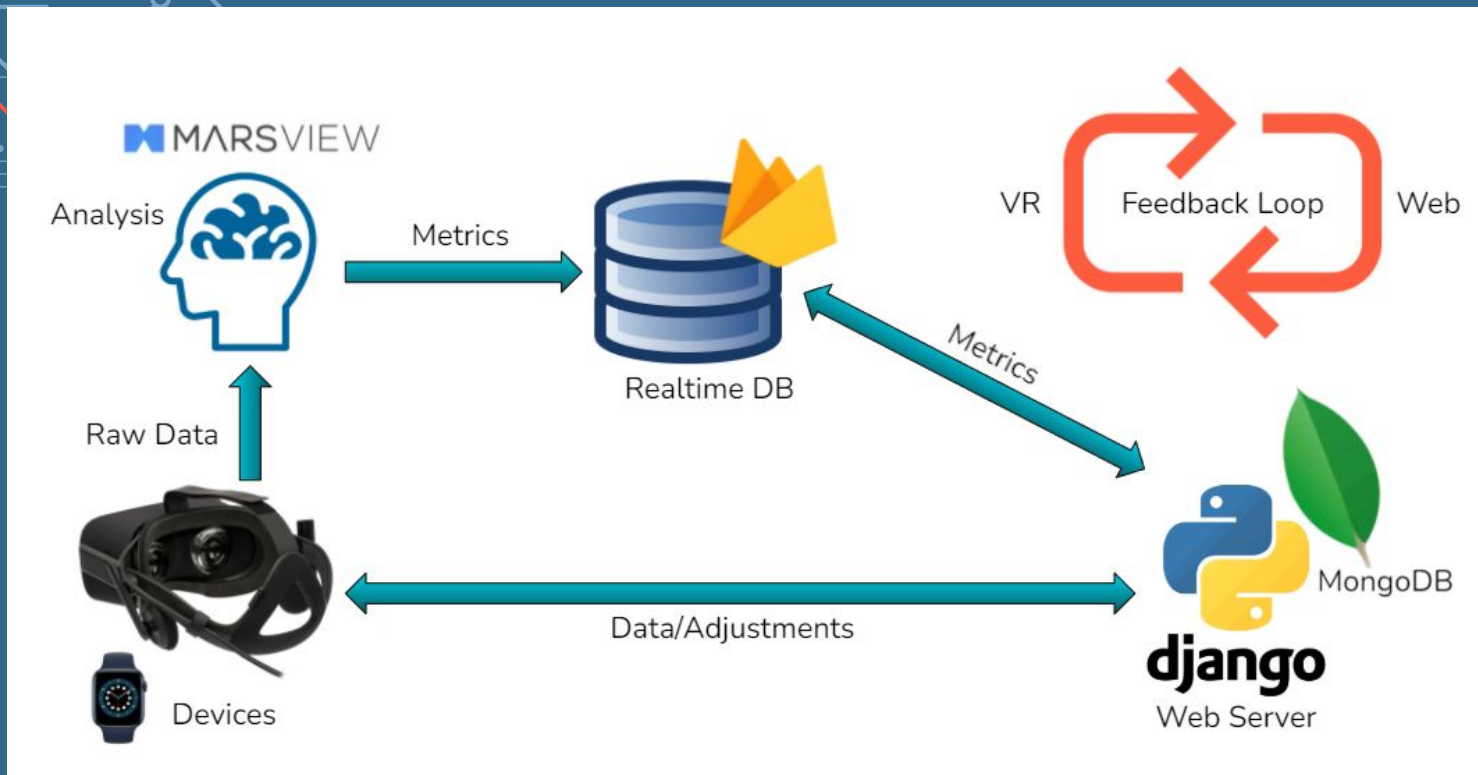




# Live Demo



# Architecture



# Future Goals



## Parameters

Add more physiological parameters to our adjustment algorithm



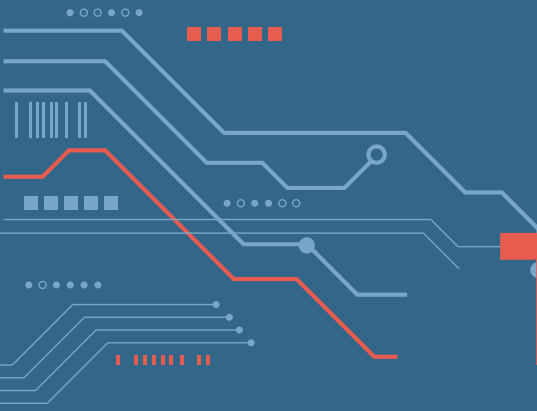
## Environments

Increased number of virtual environments



## Translation

Connect people all over the world



# Thank you



## Any questions?