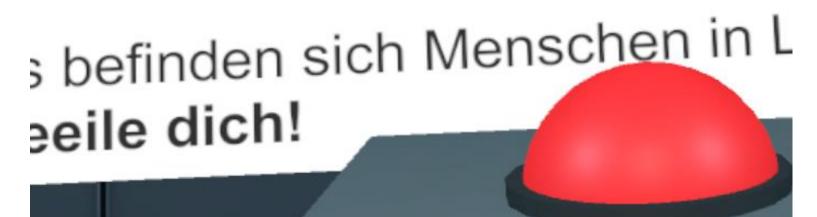
Firefighter Virtual Reality Simulation for Personalized Stress Detection*





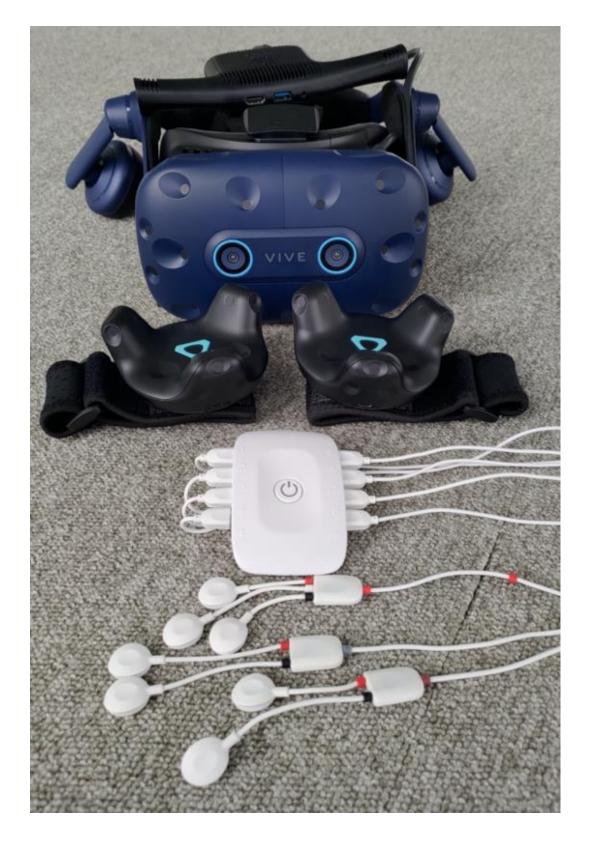
ichtige Schritte:
Finde die **zwei Personen**Drehe das **Gas** im Wohnzimn
Öffne das **Wasserventil** in de
Öffne die **Fenster** in der Küch





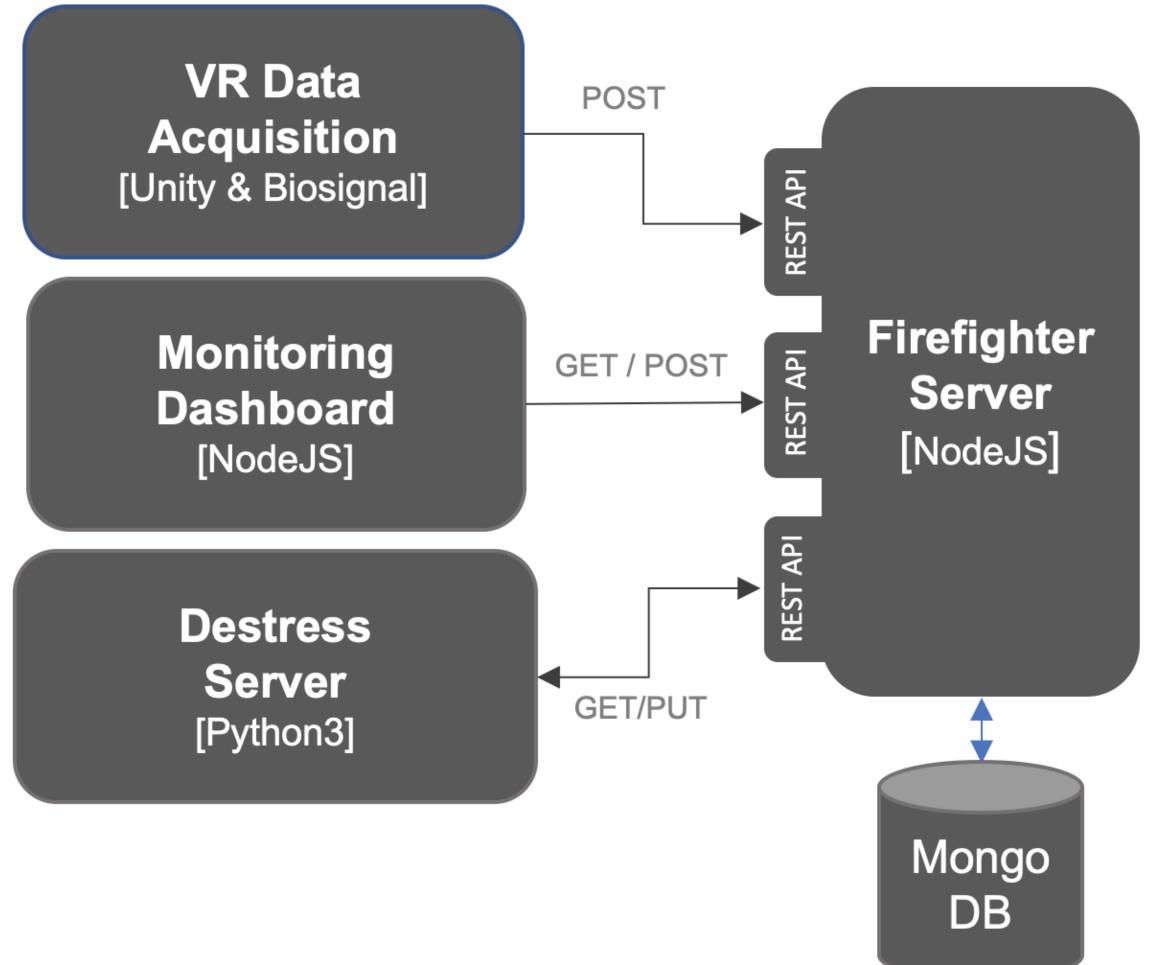
Mission Simulation in VR

- Directly triggers different mental stress levels in VR
- Configurable stressors (difficulty of navigation, sounds from victims, fire, breathing and communication, time pressure by air limitation, different tasks such as rescuing victims, extinguishing fires, and turning on/off water/gas)
- Developed an approach to map the limited VR tracking space (5 x 5 meter) to a larger virtual space



Data Acquisition System

- Scalable RESTful web services architecture for acquiring, monitoring, storing and classification of stress data
- Gathers real-time biosignal data (ECG, EDA, EMG, EEG, RESP, ACC, TMP), eye-tracking data and VR-tracking data (position, rotation of head and hands)

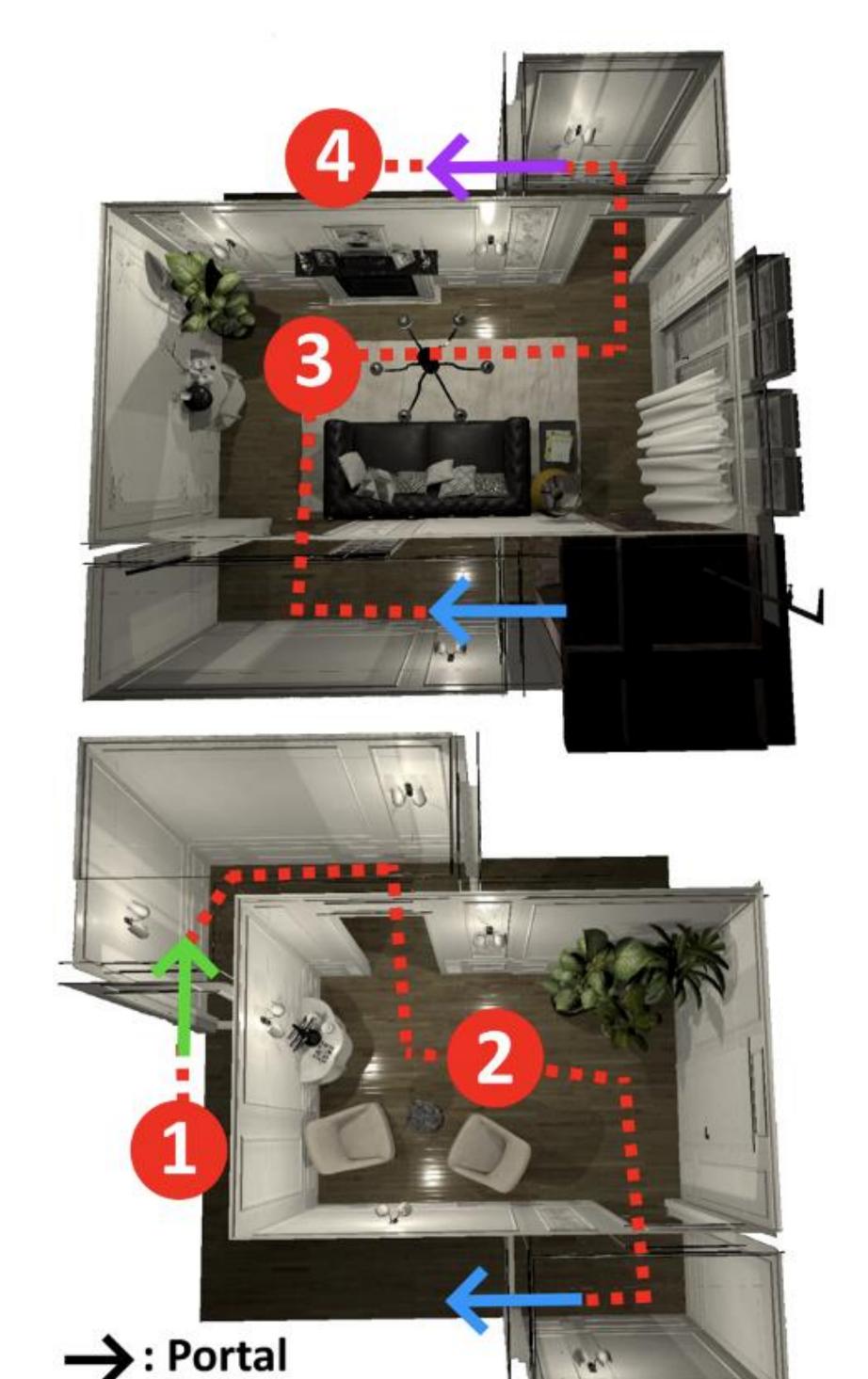


 Plan to publish multiple public datasets for researchers to build models for stress detection and management

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🐧: Step n

