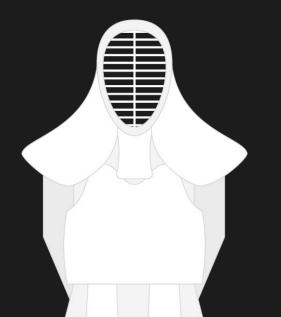


ALPHA PRESENTATION

### OVERVIEW - ABOUT THE PROJECT

## Kendō Gakkō (Kendo School)

a two-player multi-platform experience where users can learn about basic Kendo techniques, learn basic Japanese terminology, and test their memory skills.



### MASTER (MOBILE)

provides the student with a sequence of actions to perform on the training dummy

# STUDENT (OCULUS RIFT)

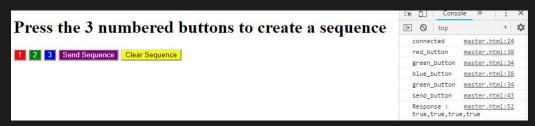
performs the sequence of actions provided by the master on the training dummy



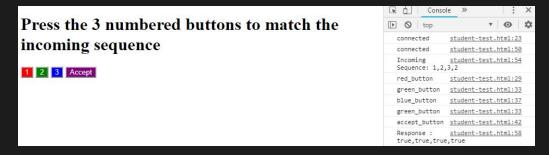
### NETWORKING PROGRESS

- » Socket.IO is being used to send arrays of information between web pages
- » Networking framework has been implemented
- » User presses numbered buttons to create/match sequence
- » Sequence is displayed in web page console

#### Master



### Student



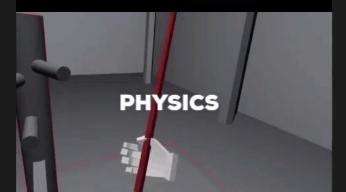
# INTERACTION PROGRESS

- » Automatically enter VR with connected Oculus Rift
- » Responsive Oculus Rift Motion Tracking (Firefox)
- » Intuitive Oculus Touch Hand States & Animations
- » Dynamic & static body physical interactions

# **Oculus Controls**



# **OCULUS TOUCH**



## **DESIGN PROGRESS**

# General visual theme established:

- » Flat colours
- » Dark / light neutrals (i.e., greys, whites) for general theme elements
- » Bright red-orange for accent elements (used less liberally than greys / whites, as a pop of colour)

Theme established in Lander Page design (see image on the right), currently in the process of being implemented in HTML, CSS, and JavaScript



# PRODUCT DEMO

#### WHAT WE'VE LEARNED

# Challenges we've faced so far:

- » Implementing physics to get it to properly control object interaction
- » Oculus Rift support in Firefox versus Google Chrome
- » Finding balance between "too serious" and "too playful" in visual style

## How our idea has evolved from the original proposal:

- » Visual style has become more simplified and flat-colour based, while still trying to stay playful
- » New ideas for ways to present menu items / sequence instructions in VR environment

#### **NEXT STEPS**

### INTERACTION

- » Implement dynamic user-to-object interaction
- » Implement physical menu selection in VR environment
- » Implement Oculus Rift gesture recognition

### NETWORKING

- » Integrate networking functionality into VR and mobile environment
- » Add signals that indicate the end of the user interaction

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» Add signals that indicate the state of each user, such as; waiting, ongoing actions, a user leaving the session, and connection issues

### UX & DESIGN

- Create responsive templates for mobileGUI
- » Style mobile GUI to match established visual style

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 Create UI assets for both platforms in accordance with the established visual design

# THANK YOU