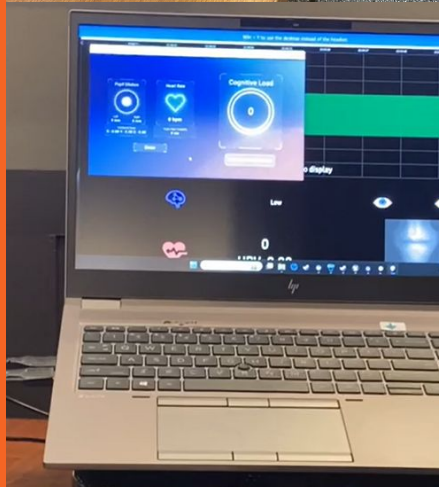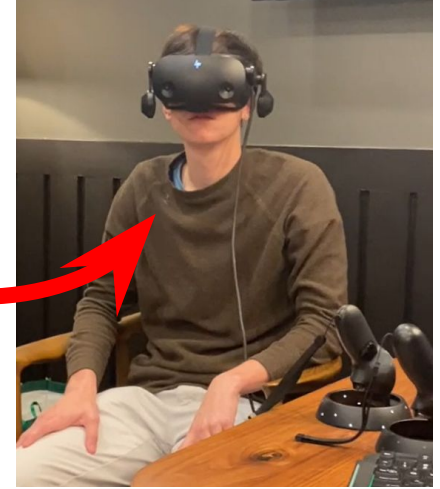# NEXT GEN EMOTION COMPUTING

R

TEAM MEMBERS

- Ethan
- Tommy
- Beethoven
- Ryan
- Peter

CLIENT INFO

- **Peak Mind**
- Dr. Alicia Mckoy
- VR Stress Reducing Technology
- Personalized coaching and support
- Identify employees at risk of burnout
- Provide early intervention

MENTOR FEEDBACK

Mid-Iteration

- Get the development environment setup on all team member machines ASAP
- Request needed info/resources from client ASAP
- Moral of the story: Work quickly to establish the foundation for the rest of your project

Before-Client Meeting

- Request $2,000 headset delivery or visit client site ASAP
- Do not leave client site without functional software *IMPORTANT

B

CLIENT FEEDBACK

Changes?

- Requested clarification of use case actor
    - Data Analysts should be referred to as Data Scientists
    - Data Scientists will handle recorded data such as raw video feed and construct analysis algorithms
- Requested modification of UC1 Program Flow to more accurately reflect:
    - Webapp utilized by users, Recorded data utilized by data scientists

Results

- The client was satisfied with changes made to design.
- Client was satisfied with functional software for iteration 1 (v1.0.0).
- Very happy to see camera functional and recording!!!

T

ITERATION 1 FEATURES VIDEO

T
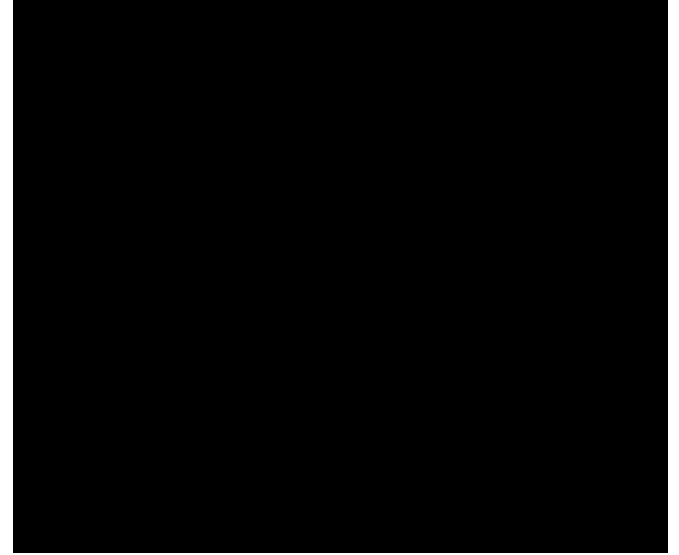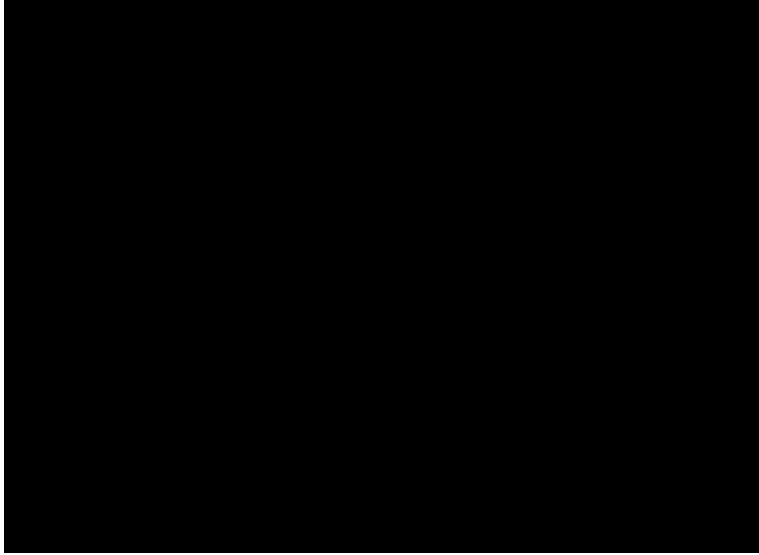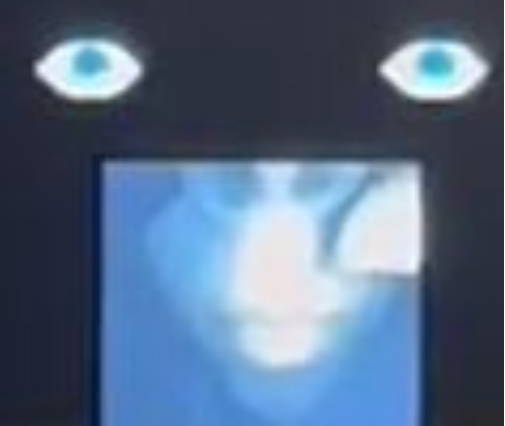
ITERATION 1 FEATURES

Primary Objective: Record Headset Facial Camera Data

- FR1. VR headset facial camera records video data for later analysis
- FR2. Recorded mp4 files feature timestamps to synchronize with other recorded biometric data per session

```
{
Input #0, mov,mp4,m4a,3gp,3g2,mj2, from '.\11-09-23-12-31-52.mp4':
  Metadata:
    major_brand     : mp42
    minor_version   : 0
    compatible_brands: mp41isom
    creation_time   : 2023-11-09T17:31:55.000000Z
  Duration: 00:00:01.61, start: 0.000000, bitrate: 8098 kb/s
  Stream #0:0[0x1](und): Video: h264 (Constrained Baseline) (avc1 / 0x31637661), yuv420p(progressive), 400x400 [SAR 1:1
DAR 1:1], 8091 kb/s, 90 fps, 90 tbr, 90k tbn (default)
    Metadata:
      creation_time   : 2023-11-09T17:31:55.000000Z
      handler_name    : VideoHandler
      vendor_id       : [0][0][0][0]
      encoder         : AVC Coding
    "packets": [
        {
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        },
        {
            "pts_time": "0.011111"
        },
        {
            "pts_time": "0.022222"
        },
        {
            "pts_time": "0.033333"
        },
```

P

ITERATION 2 FEATURES

Primary Objective: Improve Web App Functionality

- FR3. A user may log in with a six-digit code to view a visualization of their collected data
    a. including newly implemented video data
- FR4. Peak Mind analysts may access all collected data and associated visualizations.
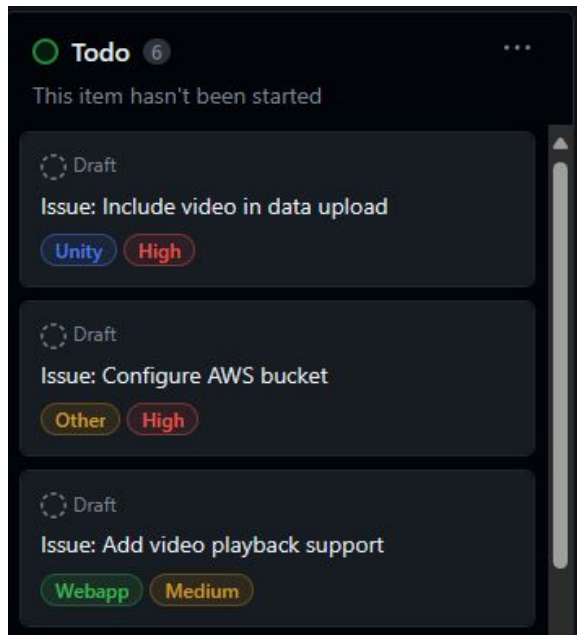
P
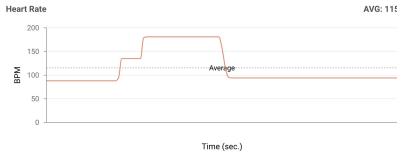
RETROSPECTION: INDIVIDUAL

- Ethan: "damn, this codebase got hands"
- Beethoven: "Plan ahead to target obstacles well in advance."
- Peter: "Nailing down this code stuff with passion and clever thinking."
- Tommy: "Unity takes up alot of memory usage when saving datas"
- Ryan: "Persistence and Perseverance got us through"

RETROSPECTION: SACRIFICES

- Limited scope, mostly
- Ignored webapp
- AWS bucket not set up

E

Looking Ahead: ITERATION 2

Capstone GC Be Like: