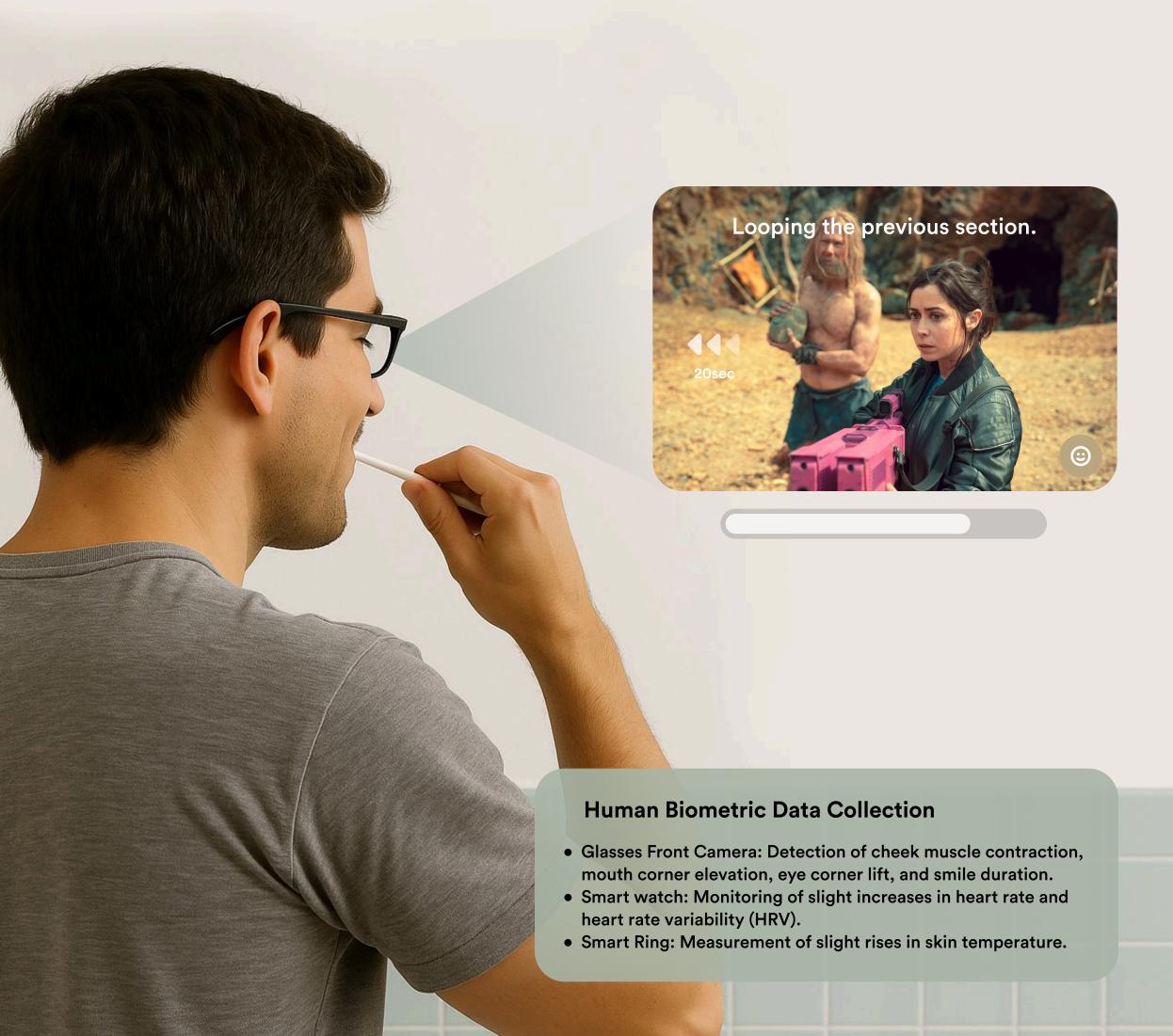
Emotion-Aware Al Wearables: Supporting Human Contexts for a Better Life

Subtly detecting moments of joy to seamlessly replay the ongoing content

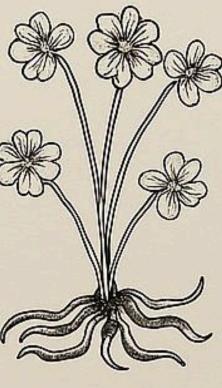
When a genuine moment of joy is detected, the glasses pinpoint the corresponding scene from the content being watched, seamlessly loop it once, or archive it as a memorable highlight sequence.



Understanding Hesitation: Zooming In and Providing Context in Real Time

By recognizing subtle signs of confusion, the glasses intelligently zoom in on objects within the user's field of view and provide contextual explanations in real time, creating a seamless and empathetic interaction





Éditions Héros-Limite



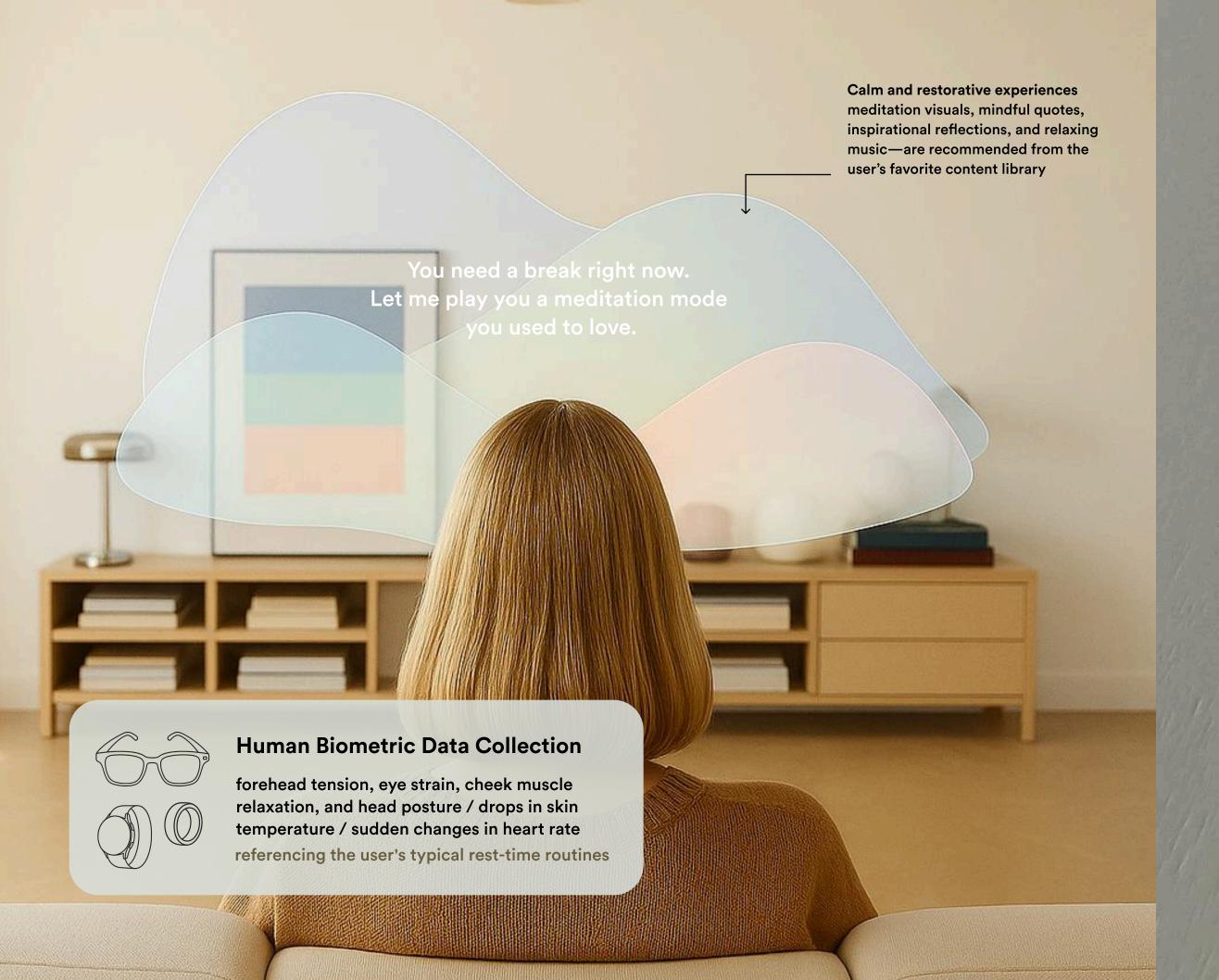
[Context-Aware Interface]Seamless English TranslationImmersive Real-Time Zoom

Contextual and Actionable Insights

When readability is low due to the small image size, seamlessly zoom in on the entire document.

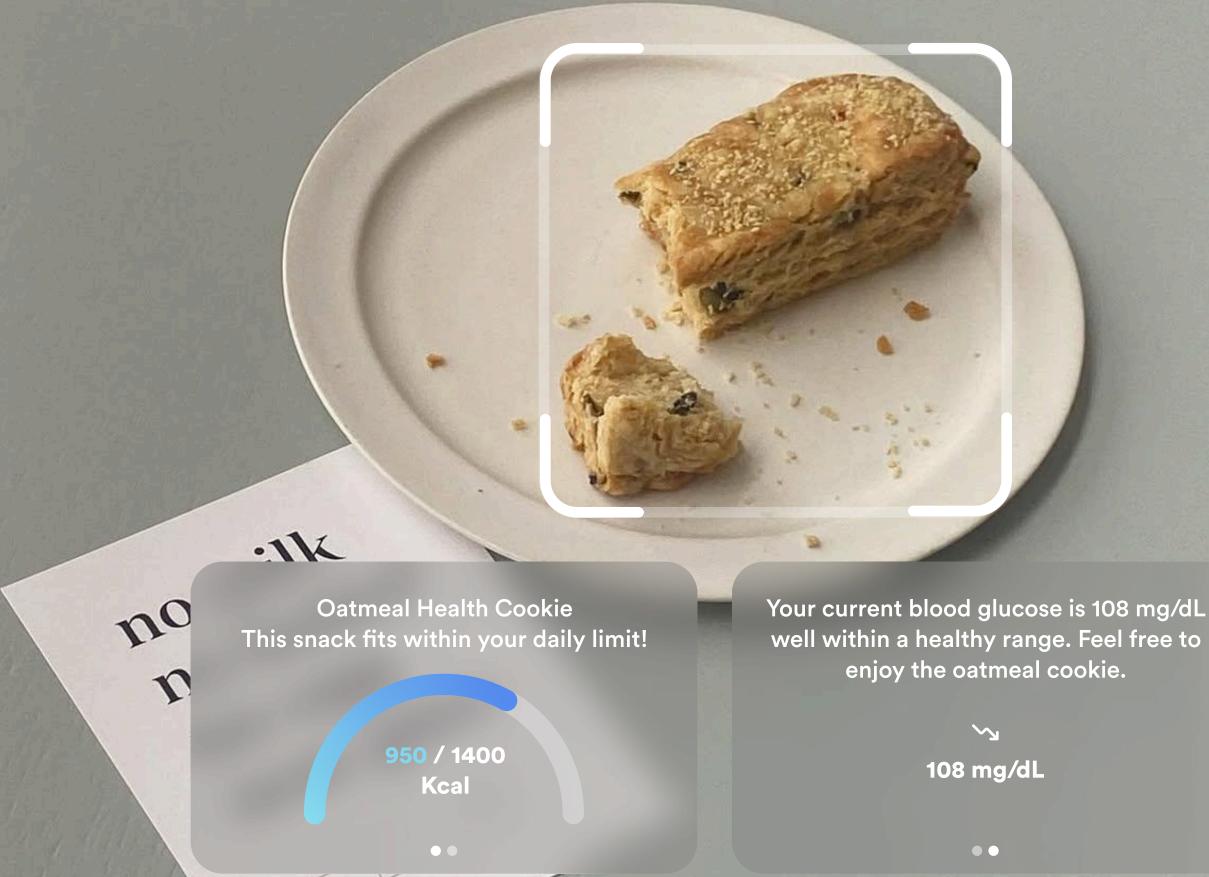
Detecting Stress and Emotional Fatigue to Intelligently Recommend Rest Mode

When the glasses detect signs of fatigue and emotional strain, they gently suggest transitioning into a familiar meditation mode, offering a design that cares for the user's emotional well-being.



Supporting Slow-Aging Nutrition with Multimodal Daily Food Insights

When the user gazes at a food item, the glasses activate real-time object recognition to identify the food. Taking into account the user's current metabolic status. such as blood glucose levels measured via a wearable ring. the glasses provide a gentle recommendation



Coexisting with Intelligence: A Human-Centered Future

Technology must recognize and respond to human emotions. "A more important question than 'What can technology do?' is 'What kind of being is a human?'

Humans react, remeber with emotions. By expressing and sharing emotions, they form social connections.

Why Human Body Data Matters in Al

Building a Human-Centric Ecosystem

Human data enables the creation of ecosystems where people can live better, healthier lives.

Capturing Emotional and Physical Signals

Samsung actively collects human biometric signals that directly reflect emotional and physical conditions.

Delivering Context-Aware UX

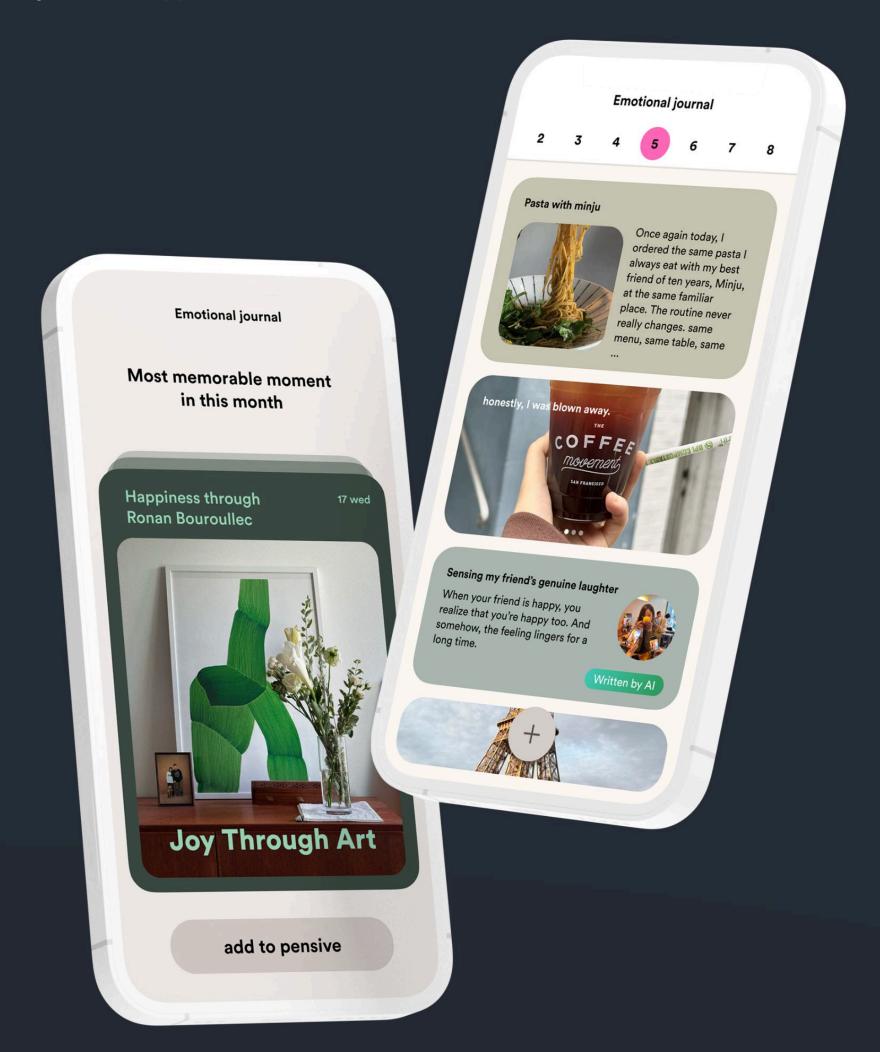
By analyzing the collected data, the system provides personalized, context-sensitive UX experiences.

Al and UX Imperatives for Samsung

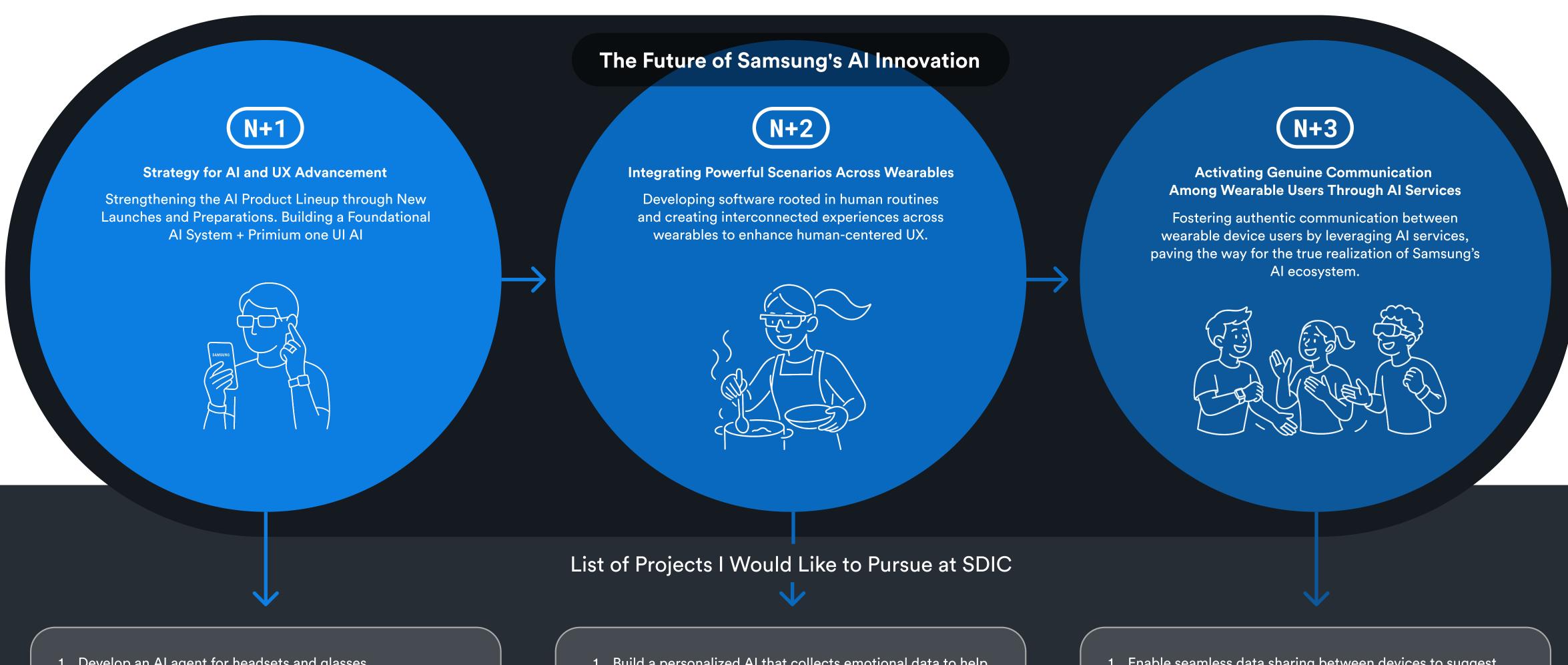
Al wearble companion app key visuals

Based on the four scenarios mentioned in the previous slide, Al can generate journal entries using the user's emotional data.

A linkage scenario through a mobile app can also be considered.



Strategic Roadmap for Future Experiences in Samsung's Computational Design



- 1. Develop an All agent for headsets and glasses.
- 2. Create AI scenarios that leverage biometric signals from rings and watches, combined with gesture recognition.
- 3. Discovering AI UX Domains for Samsung Through Simulation.

- 1. Build a personalized Al that collects emotional data to help manage daily life.
- 2. Design an Al system that integrates rings, glasses, and phones to establish personalized routines.

- 1. Enable seamless data sharing between devices to suggest users' near-future actions.
- 2. Build a user ecosystem where people share and connect through Samsung's Al platform.

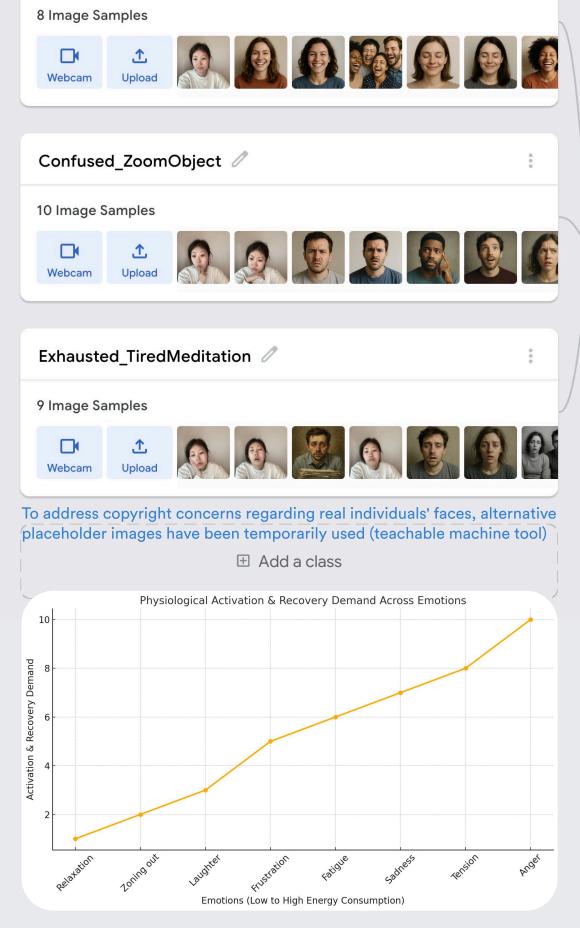
UX and Exp Planning Workflow for Computational Design (Rapid proto, Agile UX)

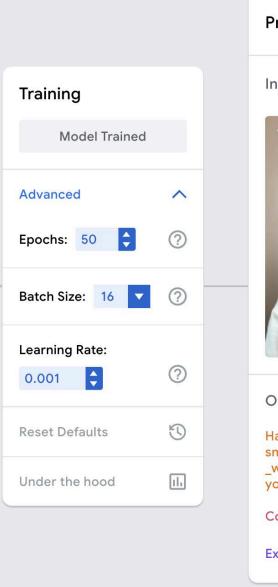
1

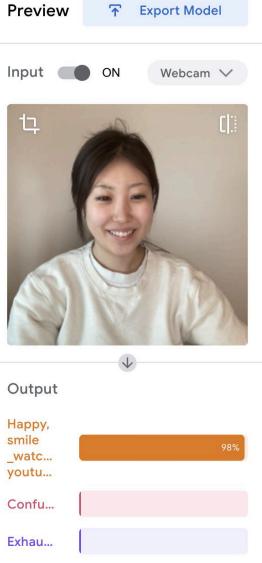
Happy, smile _watching youtube //

Collecting Human Biometric Data Through Al Simulation

Capturing emotional biometric signals such as laughter, sadness, and curiosity.







2

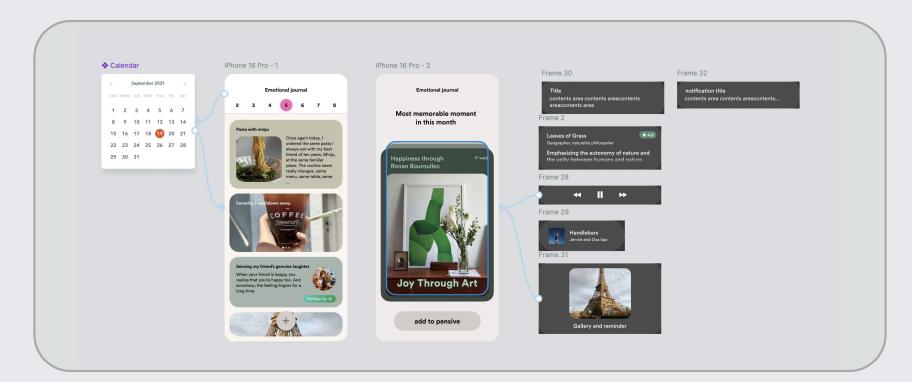
Research and Hypothesis Graph

Conducting literature reviews on emotional energy expenditure and performing qualitative user testing.



Designing UX/UI Matched to Each Emotional Class

Creating corresponding UX and UI designs for each emotion category and developing Figma prototypes. + Motion, aesthetic GUI





POC Development and Advanced AI Collaboration Building POC and collaborating with computational engineers to apply advanced AI models.



Experience Strategy Development

Continuously evolving the experience to contribute to new device innovations within Samsung.

