#### product: Noise - canceling Headphones

Ambiguous problem: How might we design headphones that balance noise cancellation and environmental awareness for outdoor users

# Empathize

**Research:** Interview outdoor users and observe their challenges.

**insights:**Users want to block distractions but stay safe by hearning critical sounds like horns or conversations.

## ideate

#### ideas:

Adaptive noise - cancellation mode for critical sounds.

Transperant mode to amplify external sounds.

# Define

**Problem statement:** Outdoor users need headphones that combine noise cancellation with environmental awareness for safety and convenience.

## Prototype

### **Build:**

A basic model with adaptive and transparent modes.

Custom sound filters app.

# Test

**Activities**: Distribute prototypes to outdoor users.

**Feedback:** Refined sensitivity, app interface, and comfort from user responses.

**Result:** Safe, user-friendly headphones designed for outdoor environments