

Neuropy

Effortless mood tracking,
smarter mental health insights

Problem

Mental health conditions affect **60 million** people in the U.S., with 30 million receiving care. **Mood tracking** provides valuable data for clinicians and enhances self-awareness, improving mental well-being. However, users often **abandon tracking** due to reliance on **manual input**, **lack of engagement mechanisms**, and **friction** in the process, preventing the maintenance of a long-term mood record.



60M
People have mental health issues




2-10 Yrs
to find the right medication combination




70%
of the people don't track moods regularly

Solution


Three Ways to Log Mood



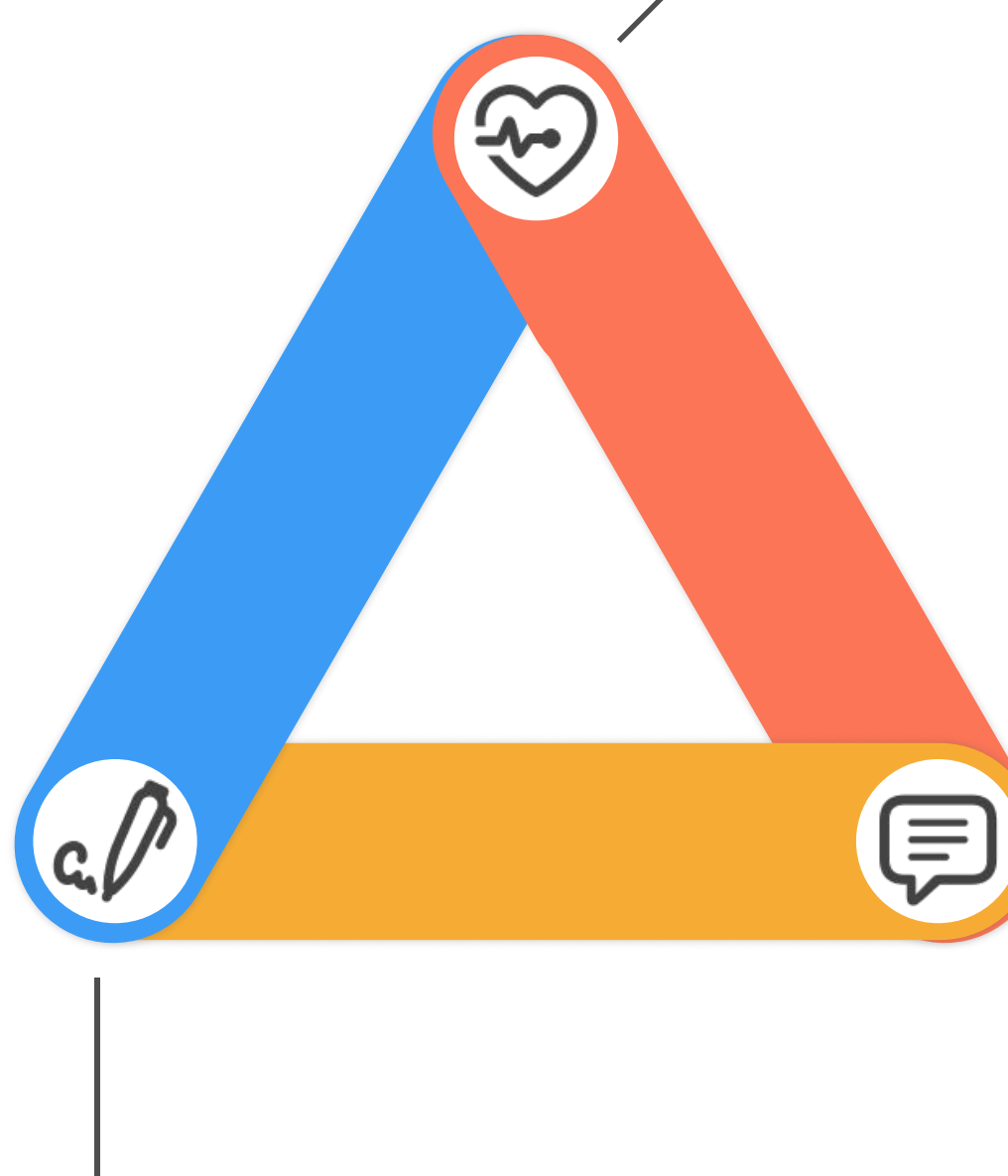
Wearable Device



Self-Log on App



Talk to Home Hub



Physiological Data
An AI-driven algorithm estimates the user's mood by analyzing biometric data. It automatically tracks mood patterns and prevents gaps in mood records.

Self-Report Data
Users actively log moods in the app, which helps calibrate our system to reach higher accuracy.

Speech Data
An AI-powered Home Hub analyzes the user's conversational data, capturing emotional nuances and contextual meaning.

Process

Research & Definition

Interviewed users and mental health clinicians to identify mood tracking challenges and clinical needs; created personas and journey maps to highlight pain points.

Concept Development

Brainstormed to develop mood tracking and estimation methods. Generated three concepts including physiological data, conversational AI, and predictive analytics. Created low-fidelity prototypes to evaluate feasibility.

Prototyping & Testing

Developed high-fidelity prototypes for Neuropy's mobile app and Home Hub; conducted usability tests and refined based on user feedback.

Technical Implementation

Created a machine learning model for mood detection using physiological data; integrated 5G connectivity into Home Hub for secure, reliable data transfer.

Mood Insights



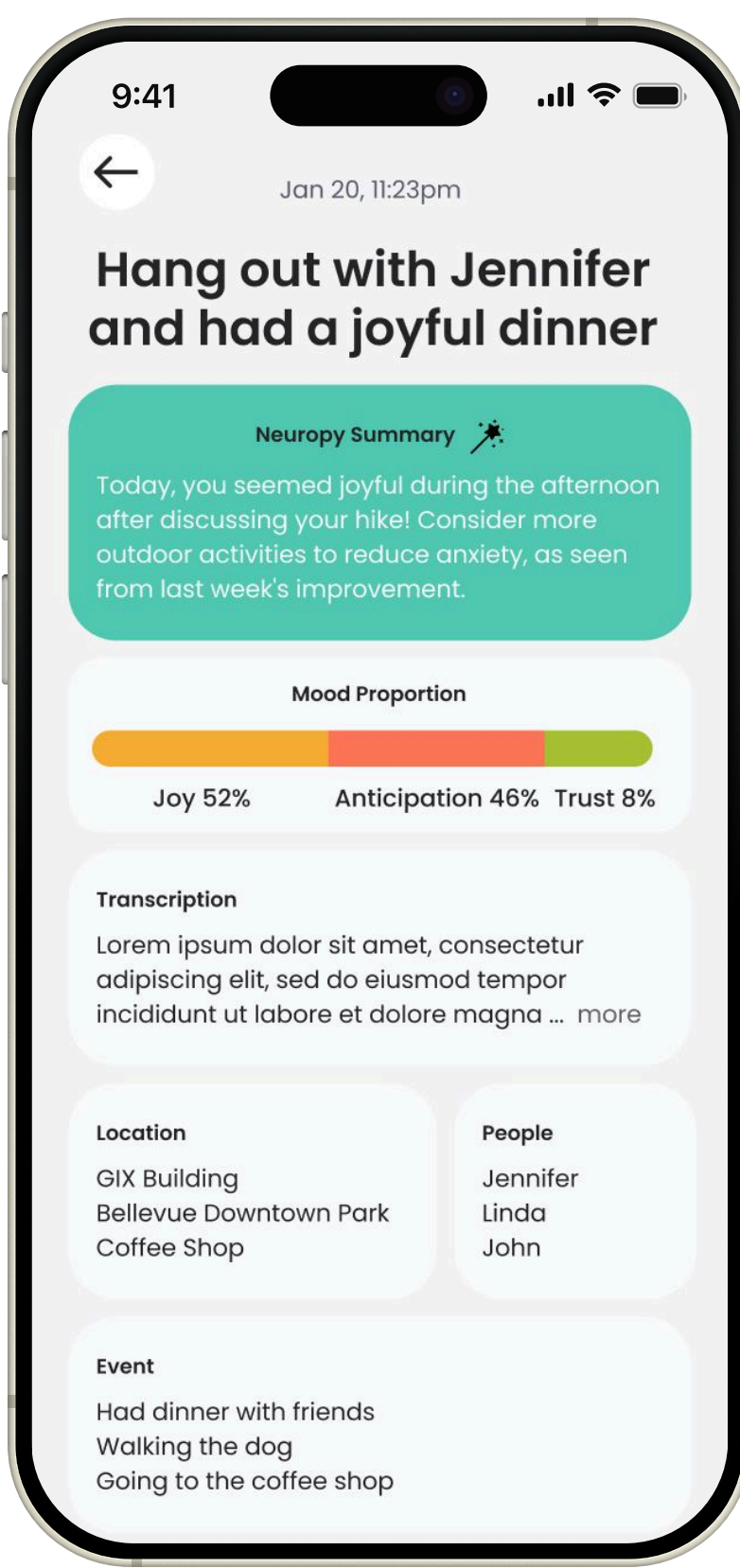
Mood Trend



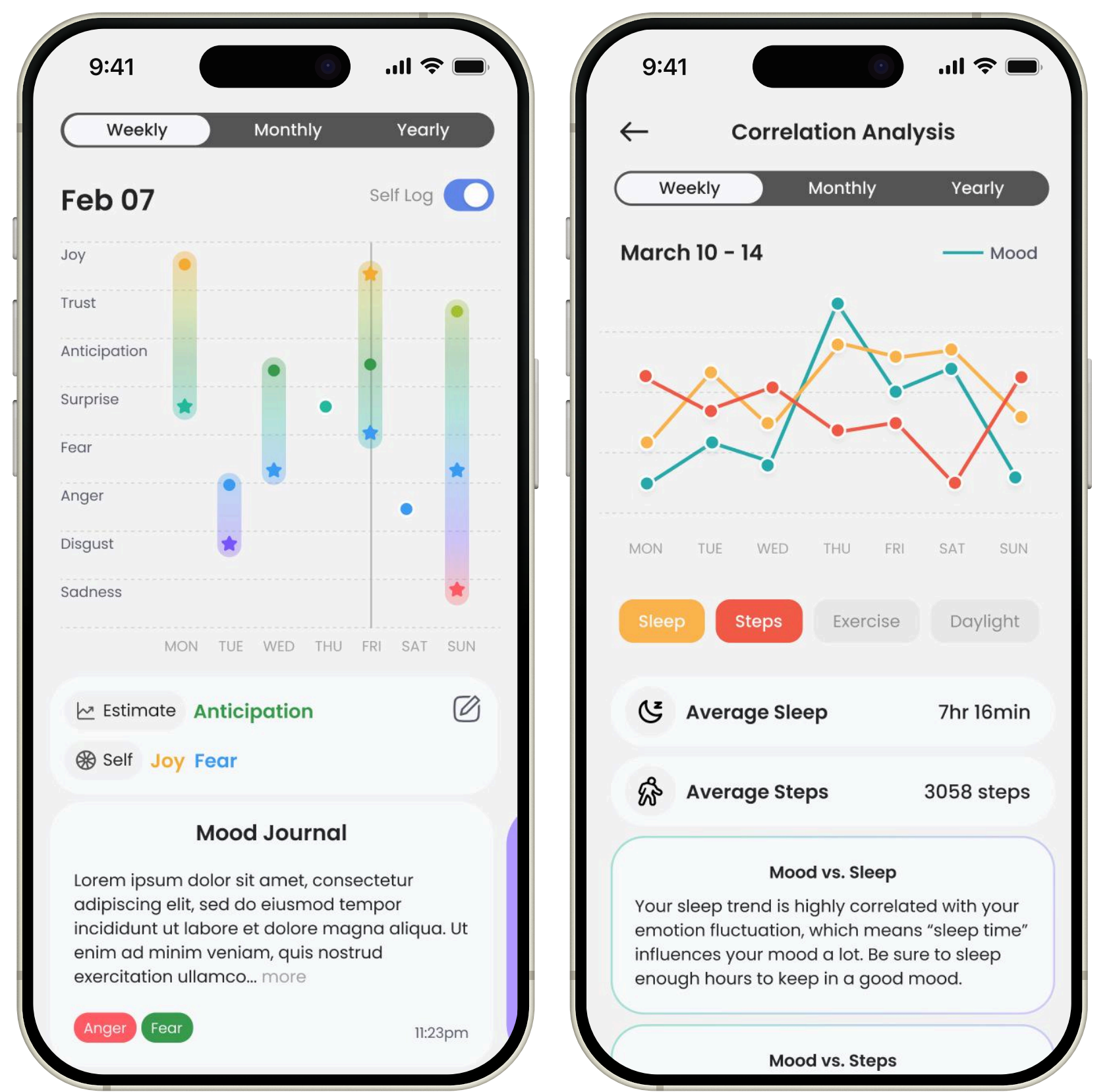
Identify Factors



Tone Analysis



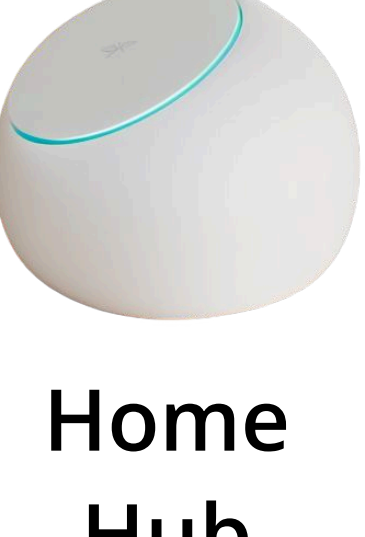
Conversational Analysis



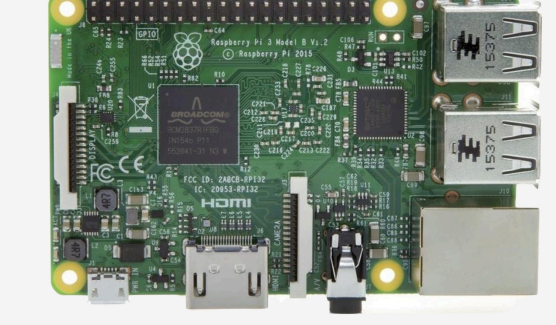
Trend & Correlation

Technical Diagram


Hardware and Features for Home Hub




Home Hub



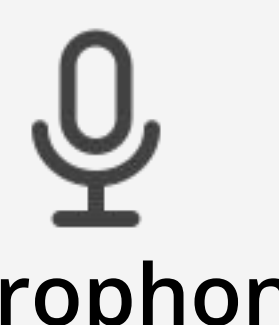
Raspberry Pi 3



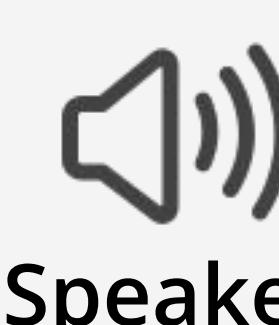
5G Module



LED Light

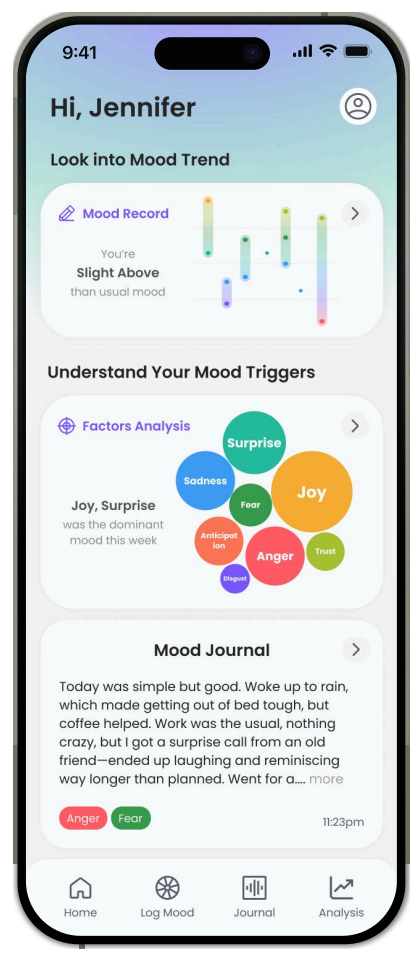


Microphone



Speaker

Technology Stack for Mobile App



Neuropy Mobile App

Front End

Flutter

Back End

Cloud Database

Cloud Firestore

hume

OpenAI

Hume AI API

Open AI API