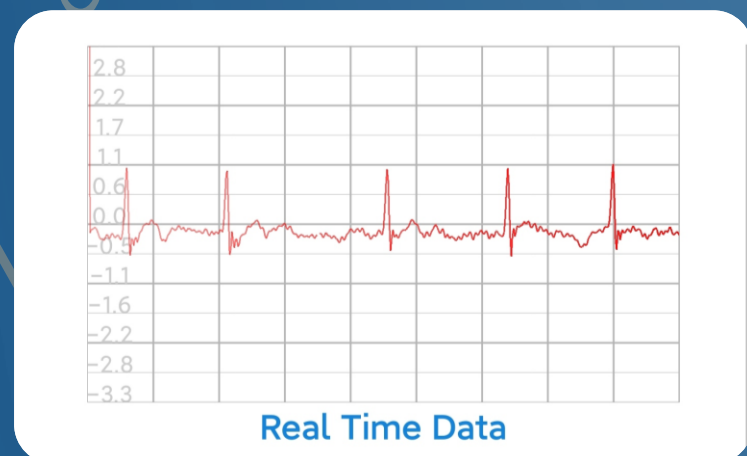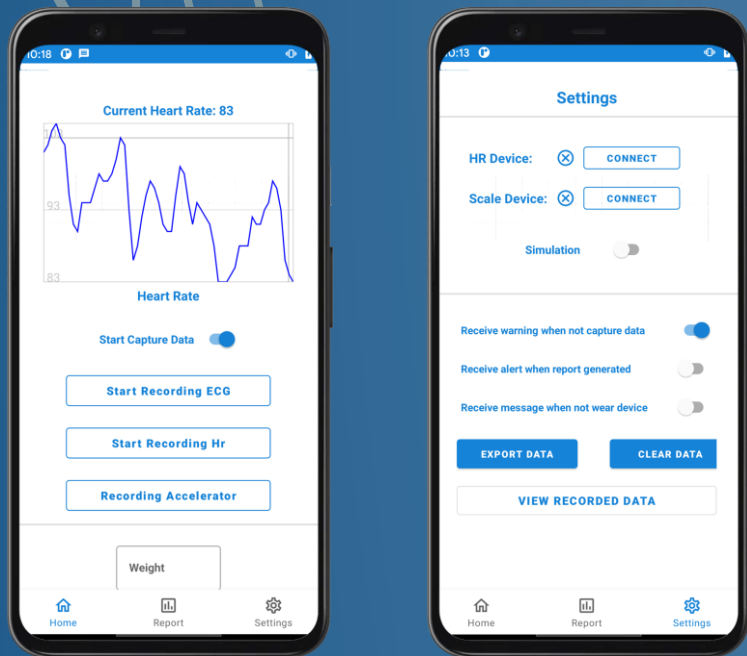**Group 19**
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Mobile System for Monitoring Vital Signs

Vital signs like ECG, heart rate, body weight and so on reflect the health conditions of people. Mobile applications for health monitoring are already on the market but the functionalities are limited.

Our project enable to connect with multiple vital sign devices, satisfy simultaneously the requirements of **accuracy of capturing data**, **safe data transfer** and **storage**, and **advanced analyses** with medical-grade algorithms.

This system is a prototype that enables connectivity of four devices and represents a basis for future Internet of Things (IoT) enabled uses.

IoT System

Polar H10 — Capture Data → Our Android Application (temporary storage)

Yunmai Scale — Capture Data →

User — Real-time view & Alert

Export Data → Local Server (long-term storage)

Process Data (Clean, standardize)

anonymization → Internet

Local Server → Professional medical analysis