



Daily breathing sessions that lower blood pressure.

PROJECT

Brythm

Deemaze Software

Bournemouth University

RESEARCH

MEDTECH

WEARABLE TECHNOLOGY

REAL-TIME MONITORING

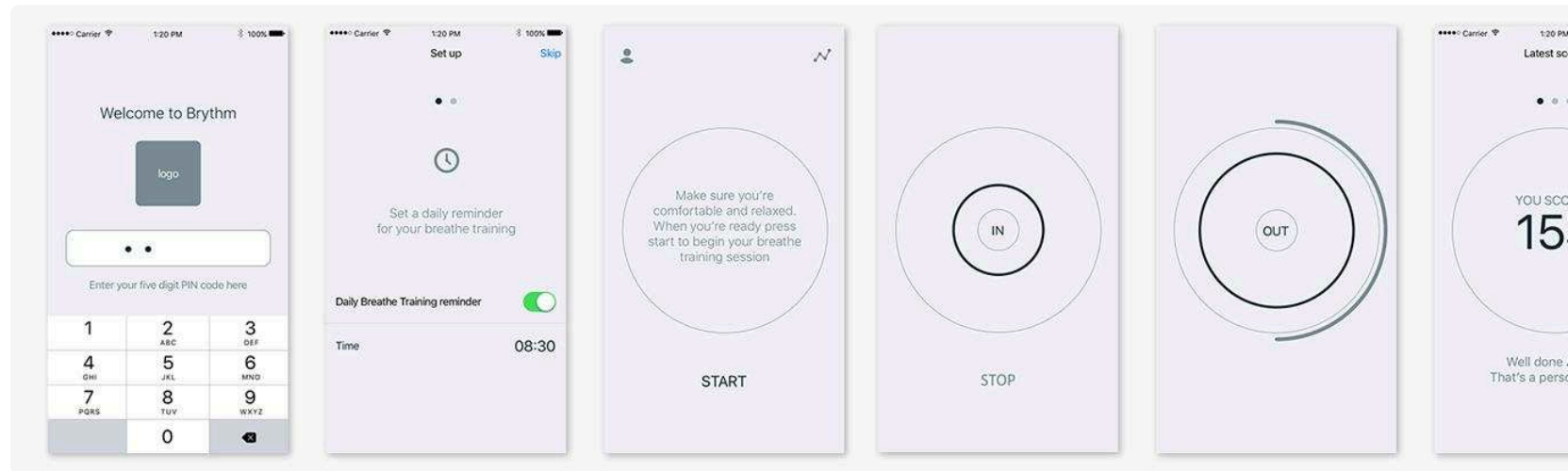
THE CHALLENGE

Bournemouth University set out to explore the potential of slow-breathing exercises in reducing high blood pressure, particularly in pregnant women. To support this innovative research, they needed a medical-grade mobile application capable of guiding users through personalized breathing sessions, accurately monitoring heart rates, and securely recording data for analysis.

The app also required the implementation of a Breathing Assistant Algorithm, which dynamically adjusted breathing exercises based on each individual's physiology. The project required seamless integration of this algorithm with external heart rate sensors, precise data handling for accuracy, and adherence to strict medical standards

THE SOLUTION

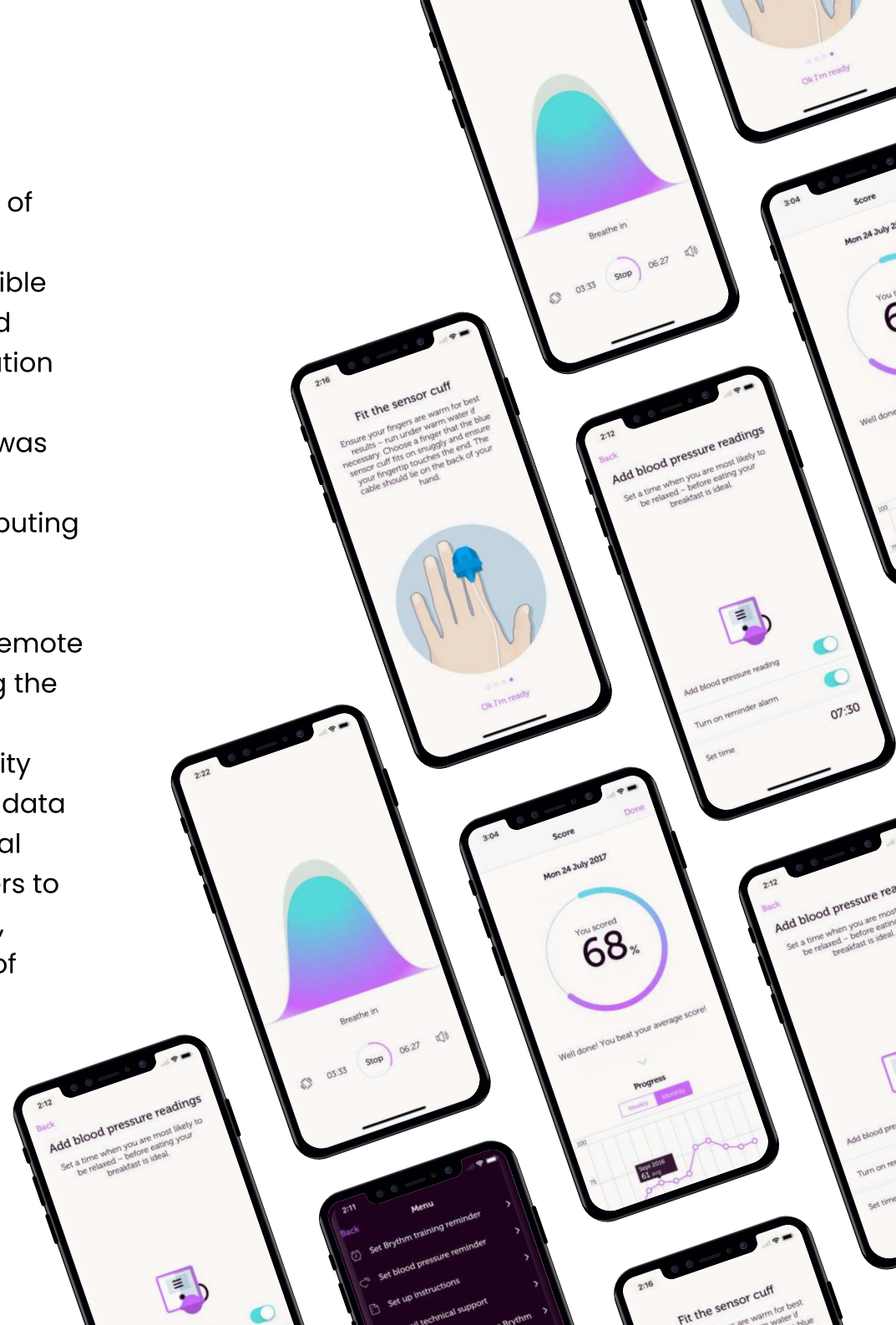
Deemaze's contributions focused on creating a reliable, user-focused platform that enabled participants to engage in guided breathing exercises independently. The platform provided researchers with consistent, high-quality data, empowering them to conduct their clinical trials with confidence and advancing their study on the impact of slow-breathing techniques on health outcomes.



THE RESULTS

Brythm has become an essential piece of Bournemouth University's research, providing participants with an accessible and effective way to engage in guided breathing exercises. The app's integration of the Innovative Breathing Assistant Algorithm ensured that each session was uniquely tailored to the individual, delivering optimal results while contributing to a seamless user experience.

The platform successfully facilitated remote participation in the research, reducing the need for in-person monitoring while maintaining the accuracy and reliability required for clinical trials. With secure data handling and compliance with medical standards, Brythm enabled researchers to collect and analyze high-quality data, advancing their study on the impact of slow-breathing exercises on blood pressure.



FOR ADDITIONAL
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