



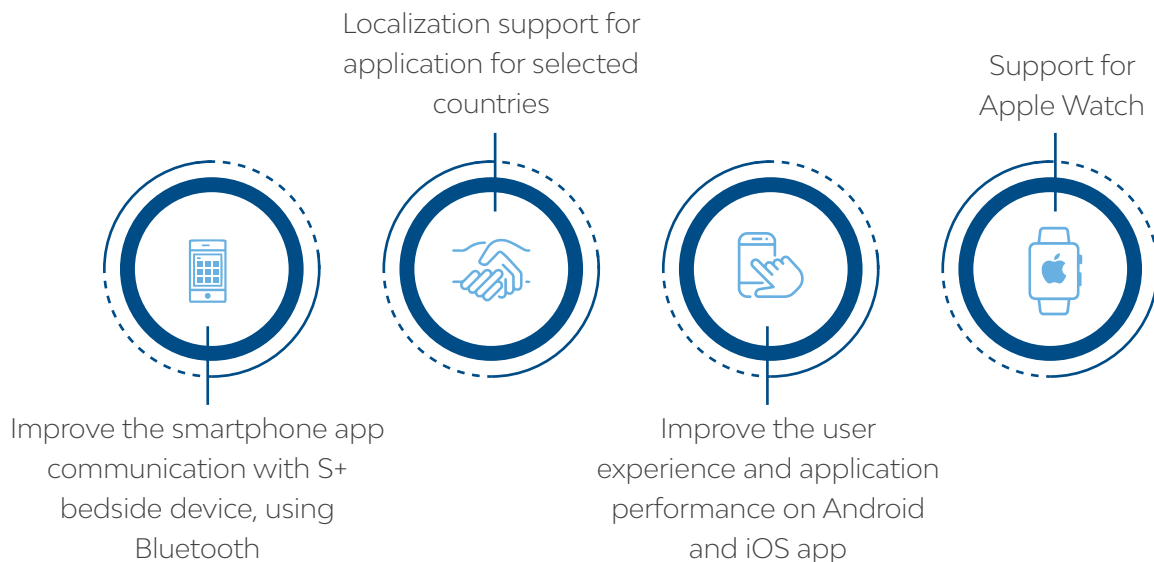
Case Study

Enhanced User Experience and Application Performance of Sleep Tracking System App for Medical Devices and Cloud-Based Software Applications Company

Client

The client is an award-winning medical devices and cutting-edge Cloud-based software applications company. It creates solutions to better diagnose, treat, and manage sleep apnea, Chronic Obstructive Pulmonary Disease (COPD), and other chronic diseases.

Challenges



LTIMindtree Solution

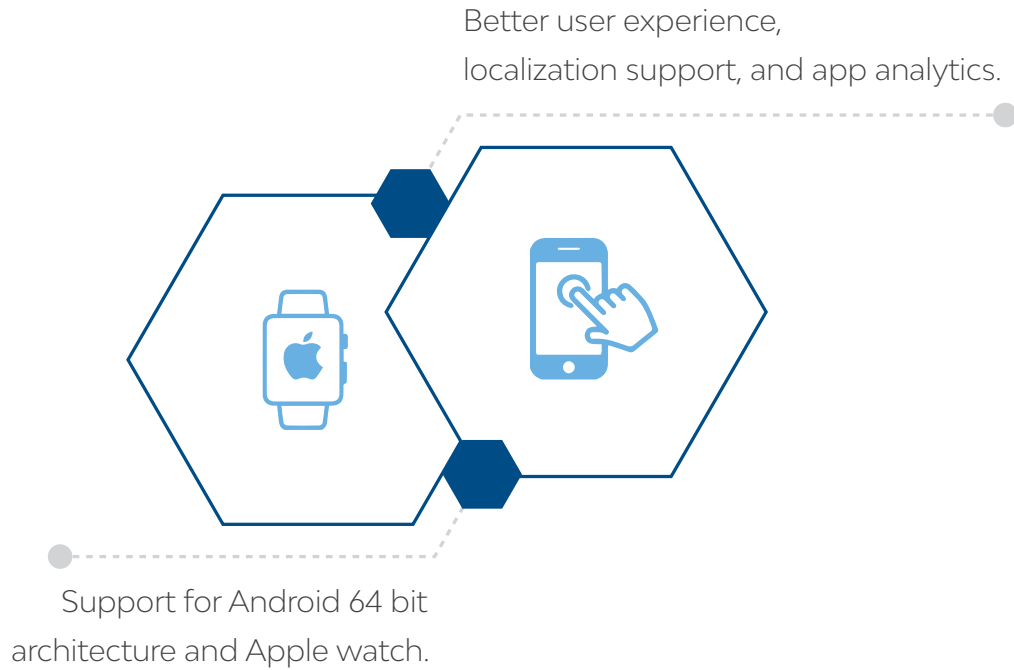
Scope:

- UI changes for better usability and user experience
- Application support on latest Android devices, with 64 bit architecture
- Flurry analytics implementation on Android and iOS application
- Localization support on application server to get sleep advice specific to user's current locale
- GCM and PUSH notification implementation for sleep advices

Scope:

- Bedside device connects to smartphone via Bluetooth. Interactions are done entirely via phone
- Sleep session is triggered from the phone. Bedside device uses low-frequency radio waves to detect movement, breathing, and heart rate, as well as room temperature and luminosity
- Uses microphone on phone to determine ambient volume. Raw data is sent from unit to phone - app has algorithm that determines sleep phase
- Technology: Microsoft Azure as Cloud Platform | SQL Azure for database, along with Table Storage | Queues for Advice Engine | Cloud services for main API (user API and bulk API) | Azure websites for public sites and dashboards | Mobile services for push notifications

Business Benefits



LTIMindtree is a global technology consulting and digital solutions company that enables enterprises across industries to reimagine business models, accelerate innovation, and maximize growth by harnessing digital technologies. As a digital transformation partner to more than 700 clients, LTIMindtree brings extensive domain and technology expertise to help drive superior competitive differentiation, customer experiences, and business outcomes in a converging world. Powered by 84,000+ talented and entrepreneurial professionals across more than 30 countries, LTIMindtree — a Larsen & Toubro Group company — combines the industry-acclaimed strengths of erstwhile Larsen and Toubro Infotech and Mindtree in solving the most complex business challenges and delivering transformation at scale. For more information, please visit <https://www.ltimindtree.com/>