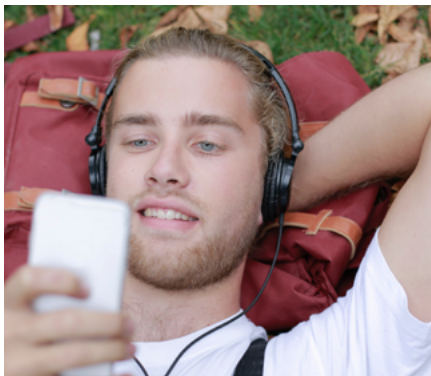




The mobile app & EEG headphones that lull you to sleep

Tim Antos, CEO of Kokoon, suffered from sleeplessness for many years. He also found audio to be **very effective** in helping him **relax and fall asleep** – but found that the headphones he used were not designed to be slept in and proved very uncomfortable.

🎯 BUSINESS NEED



Necessity is the mother of invention however, and Tim soon had his lightbulb moment.

He decided to design a special set of headphones, which would be comfortable to sleep in and which would use special EEG technology to sense sleeping patterns.

Tim and his colleagues from Imperial College, London created the sleep sensing

headphones using the latest, most sophisticated technology. Hence, they knew they would need an experienced software development team to produce the mobile application and backend solution, which would be at the centre of the system. Ensuring excellent user experience and ease of use was also of utmost importance to Tim and his team – which is why their product also required the expertise of a Business Analyst, Quality Assurance professionals, and UX designers.

💡 SOLUTION

The Kokoon headphone is the first of its kind in the world and the software behind this technology is extremely sophisticated.

The project therefore required a team that can 'think outside of the box' and the PGS Software team provided Kokoon with new concepts that were then integrated into the overall solution.

Audio is one of the most effective ways to help us relax and switch off naturally. The technology in the headphones accurately tracks how deeply you are sleeping using both movement and its built in EEG sensors to measure tiny voltages from

the brain to understand individual sleep patterns. This information is fed to your smartphone app to give a nightly sleep score. The data is then used to identify how the technology can improve your sleep. The system will adjust your audio and pause it as you fall asleep. Protective white noise is then introduced to ensure you remain undisturbed. Using a Kokoon headphone is easy – simply put it on and let the sensors do the work.





PGS understood the importance of meeting the deadline. Their highly motivated team helped us in putting our visions into a great application.

Tim Antos
CEO — Kokoon

The PGS Software team were instrumental in integrating the mobile application for both iOS and Android devices with the API that processed the EEG data. They used DevOps methodology to accelerate the development of the system and it was a great success as they were able to develop the mobile app and the backend service in parallel. They produced continuous sprints of high quality software, generating working models during the project.

Testing is always an important part of any software application and the PGS Software team carried out the testing working in conjunction with Kokoon's own in-house team to ensure that all work complied with the company's exacting standards.

Producing the software to get the technology to work was not the only key area that PGS Software was involved in. PGS Software's expertise covered a wider remit as the project evolved and the company provided Kokoon with additional support including a Business Analyst, Quality Assurance, and UX staff. Additionally, PGS Software was also involved in developing the look of the mobile app.



BUSINESS BENEFITS

PGS Software created an application that delivers user benefits like no other product on the market - leading to over 15,000 pre-orders of the Kokoon headphone even before its official launch.

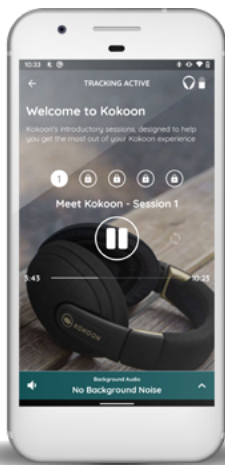
The headphones have been a tremendous success. Made from natural, breathable fabrics, they are designed to mold to the shape of your head to help you remain cool and comfortable wherever you are. Folding down to the size of a book, the Kokoon headphones are the ideal travelling companion.

The Kokoon headphones:

- Adapts to the user and their environment
- Tracks how deeply the user is sleeping
- The mobile app provides a "sleep score"
- The data stored in the app is used to identify how the user's sleep can be improved
- The system adjusts the audio as the user falls asleep



Source: www.eu.kokoon.io/products/kokoon-headphones



PROJECT DETAILS

SOLUTIONS

Continuous Integration, Scrum, Manual Testing, UX, External Bluetooth device integration, Machine learning, Analytics, advanced audio playback solutions

TECHNOLOGIES

iOS, Android, Ruby, Python

TOOLS

GATT, TensorFlow, ExoPlayer, Firebase, Facebook SDK

TEAM

5 Developers



FOR MORE INFORMATION ABOUT OUR SERVICES:
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