intetics

Where software concepts come alive™

Business Domain	**Project Type**
Startups	Mobile Application

Mobile App for Babies' Diapers Scent Recognition with Recommendations for Child Care

Client

NanoScent Ltd., an award-winning Israeli company, specializes in scent recognition with the help of hardware and ML. The Client's mission is to integrate smell-identifying and analyzing tools into everyday applications, spanning domains from Wellbeing to Industry 4.0.

Project

The project's core idea involved developing a mobile application for managing a scent recognition device. The basic functionality included:

- parent registration,
- adding children's profiles to the app,
- keeping records about children's feeding and health.

Objective

Develop a client-server cross-platform mobile app to recognize different statuses and parameters of babies' diapers and provide user recommendations based on machine learning algorithms.

Team Reinforcement

NanoScent Ltd. sought a partner to form a team to meet all their needs and objectives. The collaboration between the Client and the Dedicated Team was very productive.

Challenge

The Client needed to create a mobile application from scratch for iOS and Android platforms with an intuitive user interface. For this, they were looking for an experienced software provider of B2C applications with the most appealing UI and enterprise-grade mobile solutions that automate business processes.

The biggest challenge was to develop intuitive UX and UI. Each mobile application development project step was implemented following the recommendations of an experienced designer to ensure the best user experience.

Another challenge was related to the distinctive feature of the application—scent recognition of the diaper and its remote testing with the hardware.

Quick Facts

✓ State-of-the-art technology approach to amplify innovation in the application

✓ A mobile application from scratch for iOS and Android platforms with an intuitive user interface

Technologies
AWS cloud / React Native / Python (Flask) / REST API / JavaScript / MySQL

Solution

★ 01
Dedicated Back-End and React Native engineers worked hand-in-hand to specify details and build client-server architecture at each project stage.

★ 02
Considering a clear understanding of the Client's business need, a state-of-the-art technology approach was implemented to amplify innovation in the application.

★ 03
The app offers quick user feedback and stores the data on the server.

★ 04
The scent footprint could be analyzed with a machine learning algorithm to identify its components. Scent analysis helps identify possible deviations from the norm.

★ 05
As a reliable and scalable cloud computing service, AWS was used to make the application more innovative.

Client Reference

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The Intetics team's efforts were crucial in developing our mobile application, overcoming UX/UI design challenges, and implementing a unique scent recognition feature. Their state-of-the-art technology approach ensured innovation, exceeding our expectations and significantly enhancing user experience while adding substantial business value.

Benefits and Results

★ The Client received a mobile application built from scratch with tight timeframes and dynamic project specifications.

★ The developed user interface simplifies interactions and offers a unique customer experience.

★ The new unique mobile app revolutionized the wellbeing industry's approach to the child care.

★ With this innovative application, the Client broadened its market reach and boosted customer acquisition.

Techstack:

AWS cloud, React Native, Python (Flask), REST API, JavaScript, MySQL

Team: 8

Project Manager,
Senior Software Engineers,
Senior QA Engineers