![essential COSTA RICA]

QxD Case Study

Industry: Med-Tech Device Integration
Tech Category: Internet of Things (IoT)
www.qxdev.com

As startup companies are in a constant state of learning and growing, it can sometimes be difficult for them to mobilize on new ideas at a rapid pace.

One startup in Canada was faced with this issue when working on a new Internet of Things (IoT) product. The company had devised a smart medication dispenser that could remind patients when to take a dose and notify their doctors when the medicine supply was running low.

This urgency to innovate led the startup to hire a local company, as it needed to develop some new firmware for the dispenser. However, the provider was not able to deliver as expected, which delayed the project by six months and resulted in heightened pressure from investors.

The startup began a search for a developer with plenty of experience in IoT and device integration, eventually finding the right partner in Costa Rica.

The Challenge

The smart dispenser had to comply with medication tracking regulations, which meant that numerous players within the healthcare supply chain had to be considered.

It became clear that this was a complex level of system integration with a steep learning curve, prompting the startup to assign Costa Rican developer QxD to the task. The developer was called in to assist with the integration process and help design a mobile application for the smart dispenser, including the firmware component.

The client was used to working in a relaxed environment, which made task tracking difficult," said Valentín Secades, CEO of QxD. "When we were brought into the fold, we insisted on the use of strict development methodologies and basic project management procedures to ensure transparency, flexibility, and a higher level of insight into the entire project

The Solution

Due to the young age of the client company, its team lacked the experience of working in hybrid environments, so QxD helped educate them on backend standards and other procedures, including the automation of changes in production, a process that is more longwinded when performed manually.

Secades and his team opted to leverage agile development methodologies, which result in more control over project delivery and higher quality software.

> Successful agile development depends on constant feedback, so we encouraged the client to communicate with us daily to review changes to the project, both from a regulatory and a business perspective said Secades

Constant feedback and communication ensure that the client always knows what is in the pipeline and can instantly assess how the project is advancing. "This level of oversight is a real benefit to the client and ensures that our development team can reach the desired business objective," said Secades.

QxD also conducted automated testing to simulate different scenarios, helping speed up the delivery process. As a result, the client was able to then focus on adding new features, as opposed to fixing issues with the software.

The Results

After several internal trials, the client was able to test the device with patients and healthcare facilities. Once approved by the regulatory authorities, the device will be released to the public. In addition, the company now has just one core piece of software for all of its products, making maintenance and administration easier.

The client's adoption of agile methodologies deeply transformed its way of working, according to Secades.

> By putting the right methodology in place, we helped this client ease the pressure of getting the product to market, and they knew they had found a nearshore partner they can rely on

With its strong technological capabilities, high-level English skills, and deep cultural alignment to North America, QxD has succeeded in positioning itself and Costa Rica as a viable choice for nearshore software development services.

In 2017, North America produced 44.3% of the global revenue from internet of things healthcare, totaling US$56.1 billion.
Source:
https://www.psmarketresearch.com/press-release/iot-in-healthcare-market

By easing the pressure of getting the product to market, our client knew that they had found a nearshore partner they can rely on.

Learn more about Costa Rica's Digital Technologies Offering
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