ConnectedCrops by Our **PhoneGap** Developers

Product Overview

ConnectedCrops is a PhoneGap-based mobile app that meticulously harnesses the potential of IoT. It aims at improving the management of farmlands or crops to ensure better productivity. As the name suggests, it connects users with their crops and let them stay apprised of the physical conditions like temperature, humidity, soil moisture and wind speed prevailing there.

About Our Client

This we built for Esprida, an innovative technology company based in Canada that helps organizations across different sectors to manage and integrate physical devices, people-interactions and processes into their core business with the use of IoT.

IOT Overview

IoT is on its way to transform not just business operations, but also Customer Experience (CX) and lives on the planet at large. According to an industry survey, by the end of 2016, we will be having more Internet-connected devices than people on the planet. Hence, being an entrepreneur, you must absorb it and innovate your modus operandi to maintain an edge.

Challenges in the Agriculture Sector

Though there are many, but we are highlighting those that we were able to solve through our PhoneGap app development endeavor.
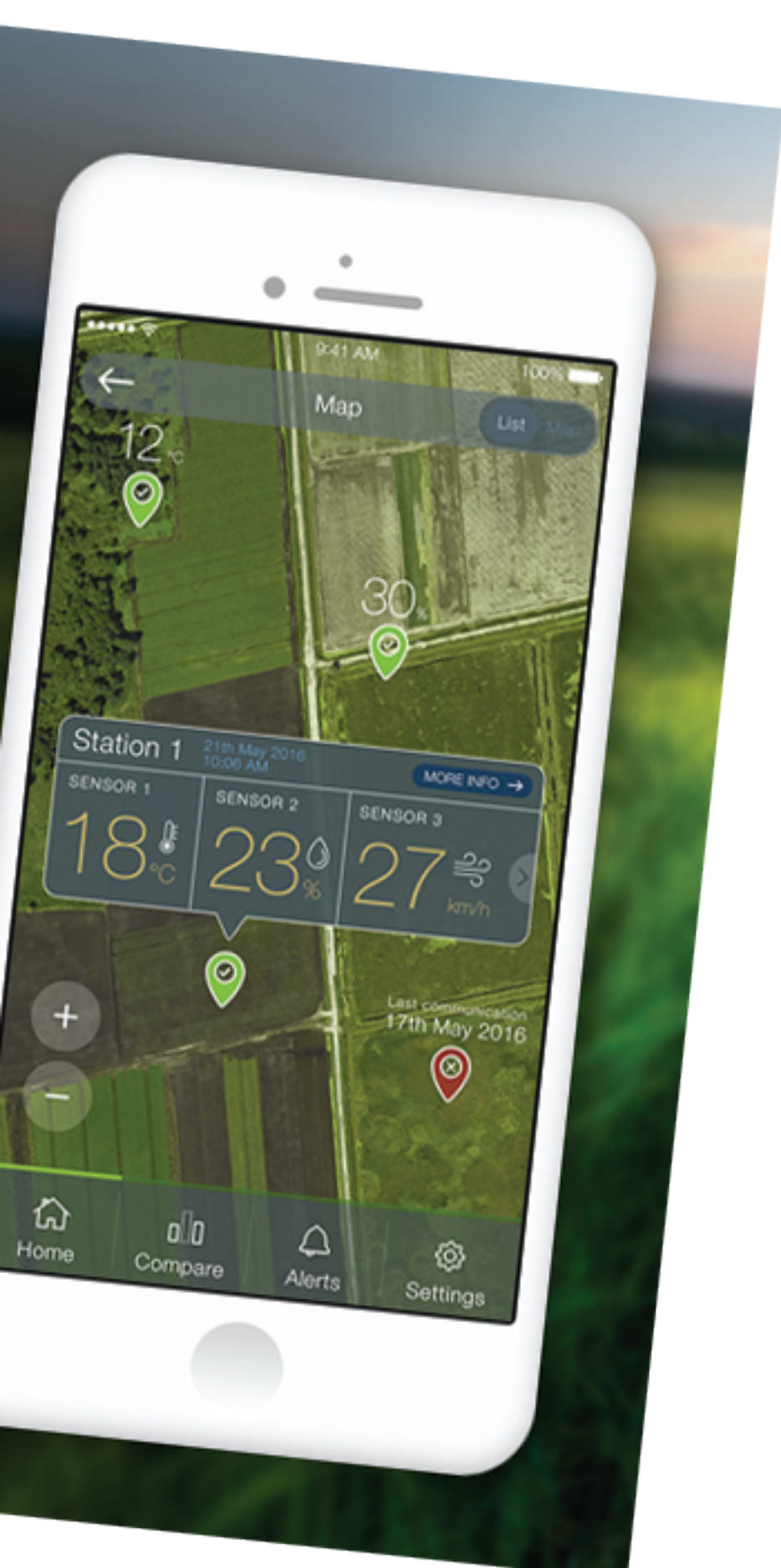
- Monitoring crops at multiple locations
- Unexpected weather condition influencing farmland productivity
- Understanding the need and urgency
- Improving productivity and produce quality

Expectations from ConnectedCrops

Esprida with a resolve to address the above challenges for farmers partnered with us. Through the app, the objective was to let farmers stay connected with their crops, anywhere, anytime using their smartphone so that they can take the right decision at the right time.

Solution

The PhoneGap-based cross-platform app heralds an era of smart agriculture akin to smart computing and smart home. The app connects with the sensors located in different agricultural fields and collects the environmental information for the users.

What Users Can Do

On the Home-Screen (image 01), the list of stations with their sensors appears. A Toggle button is facilitated on the top right side in the Header to help users change the view from List to Map and vice-versa.

- Learn the weather stats of Last Day, Last 7 Days and Last 14 Days
- View the location of their fields using Google Maps
- Compare the status of two more more different stations or fields
- Set Alerts to get notified through email or SMS

The 'Settings' tab located at the bottom of the app lands users to multiple options, viz., Help, About, Logout, Server URL, and Configure Stations. Help is a user-manual, About tells about the app owner, Server URL is nothing but the website URL of the app owner that manages the entire database and Configure Settings allows users to choose or edit stations.

Strategy

"Users love convenience, performance and the right information"

Stepping into the shoes of users, our PhoneGap mobile app developers built a fully-featured cognitive app that responds to them within the blink of the eye. The app build homogeneously combines essential components of Cordova framework, including Web app, HTML rendering engine and plugins and lets the product communicate efficiently with the operating system of the device. We have tailored the app appropriately so that it delivers native user experience on Android and iOS, the targeted platforms.

Result

Unleashing the capabilities of the latest resources of Cordova, we coded the idea of Esprida making it tangible across Android and iOS devices. Our quality analysts, after successfully testing the performance, stability and security aspects of the app on the target OS platforms on different display sizes, handed it over to the client. The app has secured good ratings on all benchmarks and is likely to get the attention of users once it hits Google Play and App Store.

About Us

Root Info Solutions (RIS) is a globally recognized Information Technology consulting and software outsourcing company based in the UK. In addition, we have an offshore software development and implementation center in New Delhi, India. We provide enterprise web and mobility solutions using different programming languages/frameworks including PhoneGap, Drupal, Angular JS, Magento, Python, Android, Swift, and more. We have been serving clients across different sectors and verticals since 2004.