

# IoT Enabled App Development for Leading Product Supplier for Food Service Industry

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## | About the Client

The Client is a leading provider of innovative, professional-grade product solution catering to industries like foodservice, healthcare, and janitorial in the US market. They have a cross-platform application that focuses on capturing the temperature being broadcasted from multiple BLE devices in the local vicinity. The product is designed to monitor temperature of food served to the patients.

## | Project Requirement

The client wanted a React-Native application for iOS and Android platform for its users. Through this application it wanted to connect the entire food delivery chain together and ensure that the food is delivered at a specified temperature.

Further, the client wanted real-time notification of the steps completed in the supply chain along with an in-built tracking system enabled through bluetooth.

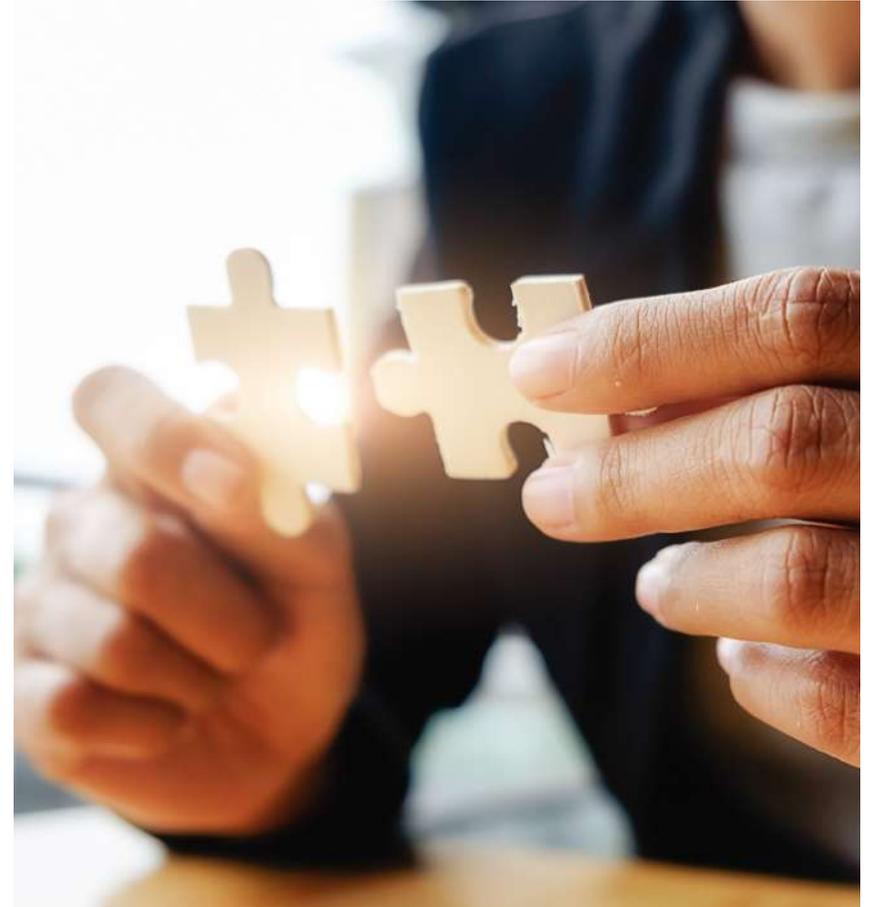


## | Solution Offered

After analyzing the client requirements our team of experts worked upon a custom react-native application that used BLE manager for scanning of the nearby bluetooth devices of registered users.

Both managers and waiters could register on the application for tracking the delivery chain status. The application was further divided into two groups based on temperature and expected delivery time that helped the entire team achieve the deliveries on time.

Redux library was integrated into the system for real-time Bluetooth scanning and data tracking along with firebase cloud messaging (FCM) to create a reliable and battery-efficient connection between server and devices that allows it to deliver and receive messages and notifications on iOS, Android, and the web in a real-time scenario.





## | Results Achieved

Faster and smoother delivery of food as per the desired temperature with detailed analysis on the supply chain progress that helped the client to improve and automate processes at their end. The application also help to improve coordination between the food preparation team and delivery team as it notified the managers on the completion of each step.

## | Benefits

- Flexible registration for all members in the entire supply chain across devices.
- User-friendly UI/UX design with multi-device compatibility.
- Higher quality and unmatched customer service by leveraging analytics based on real-time notifications.
- Smoother and faster delivery as per the desired temperature.
- Higher quality and performance speed.