



Development of an IoT Application for a Brewery

THE CLIENT

The client is a market leader in brewery sector.

BUSINESS NEED

The client wanted ALTEN Calsoft Labs to do the following:

- ⦿ Develop a mobile application based on IoT that sports features like:
 - Sensor Controlling of Equipments
 - Anomaly Detection
 - Production Management based on Sensor Data
 - Inventory Management
- ⦿ Test the mobile application to ensure streamlined use in real time

TECHNOLOGY USED

- ⦿ Platform: ALTEN Calsoft Labs' IoT Service Mangement Platform
- ⦿ UI Framework: AngularJS, Bootstrap
- ⦿ Hadoop Tool: Kafka, Spark, Cassandra
- ⦿ Paradigm: Elastic search
- ⦿ Language: Python, PHP

SOLUTION DELIVERED

ALTEN Calsoft Labs did the following to ensure maximum customer satisfaction.

- ⦿ Formulated algorithms for:
 - **Sensor Controlling of Equipments:** Cleaning, Calibration, Parameter-wise Sensor Readings, Threshold Decision and Comparison with Actual
 - **Production Management:** Recipe Planning, Work Order Decision, Sensor Data Update, Inventory Update, Root Cause Analysis, Anomaly Detection, Prior Knowledge Searches
 - **Inventory Management:** Deciding goals, workflow, storage locations and cost
- ⦿ Implemented the algorithms through a pentad of stages ranging from dataset selection, dataset division, training and testing system and analyse correlation

BUSINESS BENEFITS

- ⦿ Ensures streamlined production with a standard QoS
- ⦿ Enablement of autopilot mode for industry equipments
- ⦿ Effective management of resources

ABOUT ALTEN CALSOFT LABS

ALTEN Calsoft Labs is a next gen digital transformation, enterprise IT and product engineering services provider. The company enables clients innovate, integrate, and transform their business by leveraging disruptive technologies like mobility, big data, analytics, cloud, IoT and software-defined networking (SDN/NFV). ALTEN Calsoft Labs provides concept to market offerings for industry verticals like education, healthcare, networking & telecom, hi- tech, ISV and retail. Headquartered in Bangalore, India, the company has offices in US, Europe and Singapore. ALTEN Calsoft Labs is a part of ALTEN group, a leader in technology consulting and engineering services.

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