Project Name: Confidential

IOT Based Device Management SaaS Platform

Overview:

An IoT-based device management system facilitates seamless control and oversight of IoT devices. It enables functionalities such as tracking device location, monitoring battery levels, and remotely updating firmware, ensuring efficient management and optimization of IoT deployments while enhancing security and performance

Target Industries:

> Manufacturing and Industrial Sector
> Transportation and Logistics
> Oil and Gas
> Retail
> Utilities

Product Features:

- **Device Management**
  Streamlines the setup and organization of IoT devices, including onboarding, configuration, activation, and grouping for efficient management.
- **Monitoring and Tracking:**
  Optimizes collection routes to reduce travel time and fuel usage. Export the savings as a report. Streamline collection processes for waste management teams.
- **Firmware and Battery Management:**
  Facilitates seamless firmware updates, version control, and battery level monitoring, with alerts for low battery levels to maintain device functionality and security.
- **Alerts and Reports:**
  Generates instant alerts and provides comprehensive reports for data-driven decisions through a rules engine.

Key Achievements:

1. Enhanced brand consistency and user experience through theme customisation.
2. Increased scalability and flexibility with multi tenancy implementation.
3. Implemented dynamic role-based access control.
4. Enhanced platform speed and performance.
5. Improved maintainability and agility via micro frontend architecture.
6. Streamlined firmware management with direct updates through the platform.
7. Implemented notifications for real-time alerts.
8. Tailored platform functionality to meet specific business needs efficiently with generic module development.

Our Role:

1. Platform speed optimization
2. New feature development
3. Enhancement of existing features
4. Maintenance of legacy applications
5. Migration of legacy applications to new technologies
6. Release management
7. Pre and post-production support
8. Create backlog in JIRA which fields in future releases
9. Customer bug support and requirement fulfilment

Tech Stack Experiance:

Front-end:
ReactJS, React Native, Storybook, Typescript, Redux Toolkit

Back-end:
NodeJS, PHP, Python

Cloud Services:
AWS EC2, Lamda, IOT Core API Gateway, ALB, Firebase, APNS, Cognito

Database:
MySQL, MariaDB, PostGreSQL, MongoDB

Services Provided:
Front-end, Back-end and Mobile App Development, UI/UX Design, Quality Assurance DevOps, Cost optimisation for Cloud