Android Mobile App Projects

PROJECT#1. Tubolito – Smart Tire Pressure Monitoring App

Play Store

https://apps.apple.com/in/app/tubolito/id1529870773

Key Features

- Developed a native iOS application using **Java** and **NFC**.
- Integrated **STMicroelectronics ST25 NFC microchips** for wireless tire pressure reading.
- Enabled instant, battery-free tire pressure monitoring through NFC tag scanning.
- Implemented real-time pressure data visualisation with a simple tap-and-read user experience.

Technologies Used

- Java
- Core NFC
- ST25 NFC Microchips
- Android Native Development

Client

Tubolito GmbH – Manufacturer of innovative smart bicycle tire solutions and NFC-enabled pressure sensing products.





PROJECT #2 - TAR System – NFC Product Authentication Platform

Key Features

- Developed a native Android application using **Java** and **NFC** for product authentication and traceability.
- Implemented NFC-based product verification to validate genuine products throughout the supply chain.
- Developed **Retail Registration** workflows for onboarding and managing retail partners.
- Implemented **Box Writer** functionality to map and associate products with NFC-enabled packaging for inventory and distribution tracking.

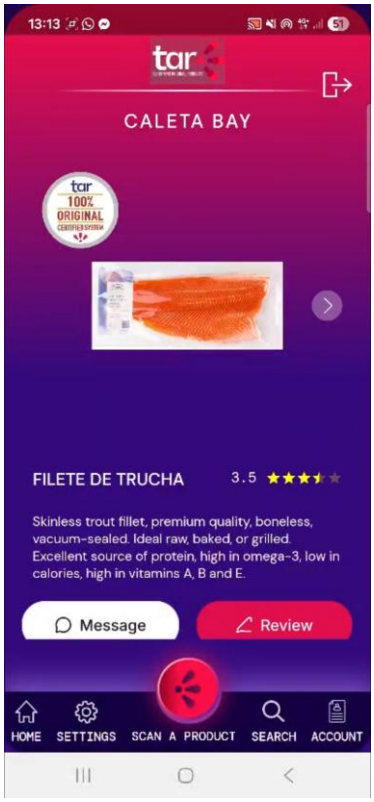
Technologies Used

- Java
- NFC
- NFC Tag Programming & Reading
- REST APIs
- Android Native Development

Client

TAR System – Product authentication and supply chain traceability solution provider leveraging NFC technology for anti-counterfeit protection and retail operations.







PROJECT#3. e-TrackSys QHSE

Play Store

https://play.google.com/store/apps/details?id=com.etracksys.qhse&hl=en_IN

Key Features

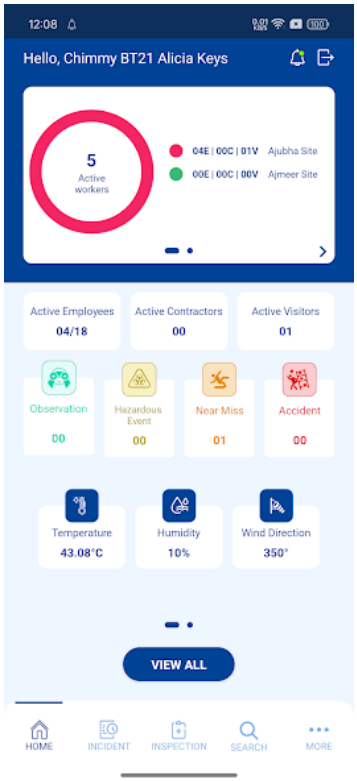
- Developed a native Android application using **Java** for Quality, Health, Safety, and Environment (QHSE) management and workforce monitoring.
- Implemented incident management workflows including incident creation, employee assignment, report generation, and support for photo/video evidence attachments.
- Integrated live tracking records through backend APIs, enabling users to monitor assets and personnel tracked by the RFID-enabled backend system.
- Developed certificate expiry alerts, push notifications, and human accident reporting workflows with body-part selection and manager notification features.

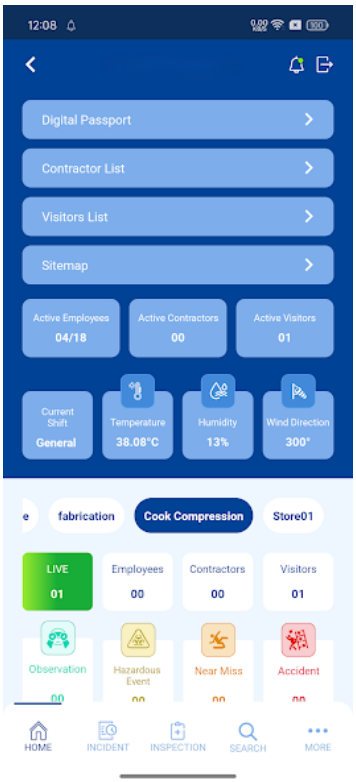
Technologies Used

- Java
- REST APIs
- Push Notifications
- Native Android Development

Client

DEAP VISION LTD – Provider of digital workforce automation and QHSE monitoring solutions.







PROJECT#5. LoRA CMS – IoT Device Management Platform

Play Store

https://play.google.com/store/apps/details?id=com.nissi.loracms&hl=en_IN

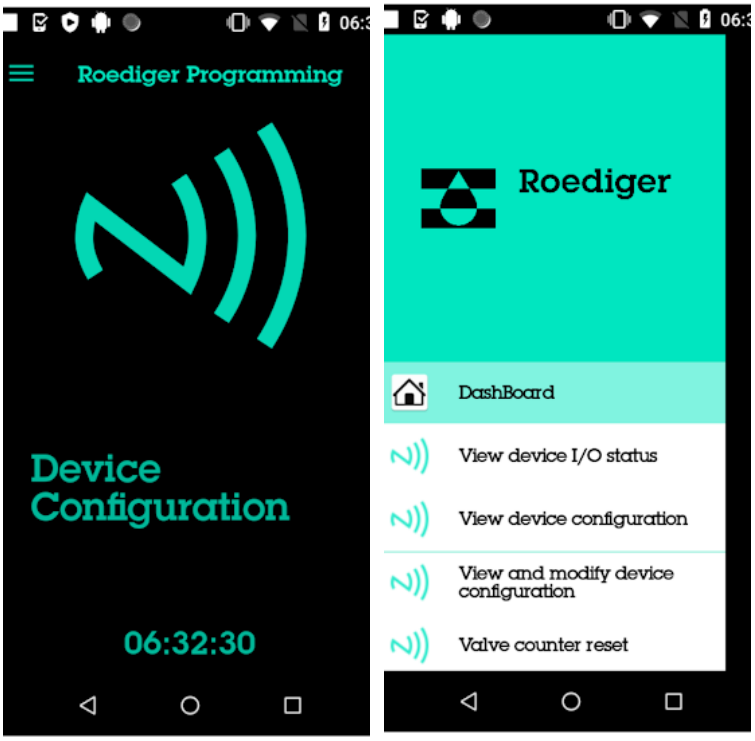
Key Features

- Developed a native Android application using **Java** for LoRa-based IoT device management.
- Implemented device provisioning, configuration, and remote monitoring through LoRa communication.
- Enabled real-time sensor data visualisation and device status monitoring.
- Developed secure user authentication and cloud synchronisation for managing connected IoT devices.

Technologies Used

- Java
- Android SDK
- LoRa Communication
- REST APIs
- SQLite
- Android Native Development

Client - LoRA CMS – IoT device management solution designed for configuring, monitoring, and managing LoRa-enabled devices and sensor networks.



PROJECT#6. Golden Plates – Shopify-Based E-Commerce Platform

Play Store

https://play.google.com/store/apps/details?id=com.b2c.goldenplates

Key Features

- Developed a native Android application using **Java** integrated with the **Shopify** e-commerce platform.
- Enabled customers to browse products, check real-time stock availability, and view ongoing offers and promotions.
- Implemented guest checkout functionality, allowing users to place orders without creating an account.
- Developed customer account management and order history features for tracking and reviewing previous purchases.

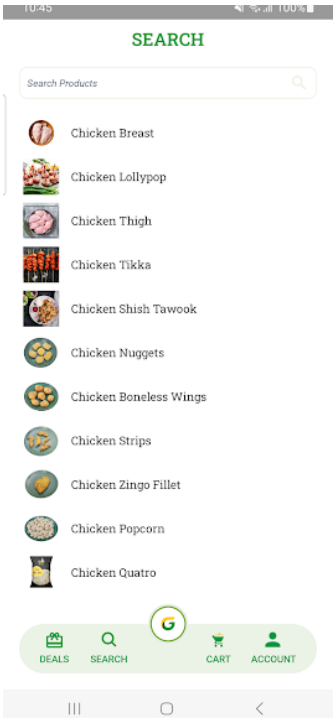
Technologies Used

- Java
- Shopify Storefront API
- REST APIs
- Android Native Development

Client

Golden Plates – Shopify-powered e-commerce platform providing online product ordering and inventory management solutions.





PROJECT#7. Golden Dunes – Warehouse & Sales Management System

Play Store

https://play.google.com/store/apps/details?id=com.b2b.goldendunes

Key Features

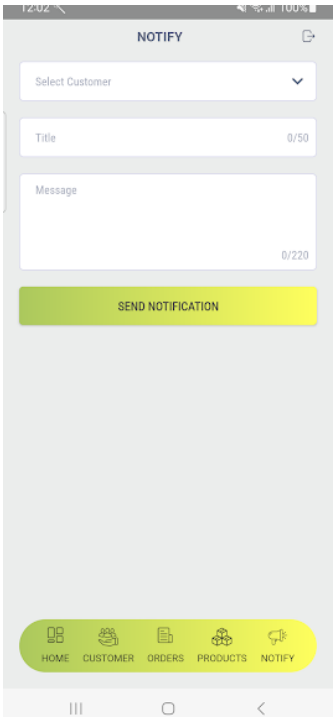
- Developed a native Android application using **Java** to streamline warehouse operations, sales workflows, and customer order management.
- Implemented role-based access for **Customers, Sales Representatives, Sales Managers, Invoice Team, Management, and Delivery Personnel**.
- Developed approval workflows for **bulk orders, free-of-charge (FOC) requests, and customer-specific price adjustments**, requiring Sales Manager or Management approval.
- Integrated with **SAP** through REST APIs for invoice processing and enterprise resource planning synchronisation.
- Implemented delivery management features, including order fulfilment, payment collection, item returns, and day-to-day delivery tracking.

Technologies Used

- Java
- REST APIs
- SAP Integration
- Role-Based Access Control (RBAC)
- Android Native Development

Client - **Golden Dunes** – Warehouse, distribution, and sales management solution provider focused on streamlining order processing, inventory operations, and delivery workflows.





PROJECT#8. Passport KYC Verification System

Key Features

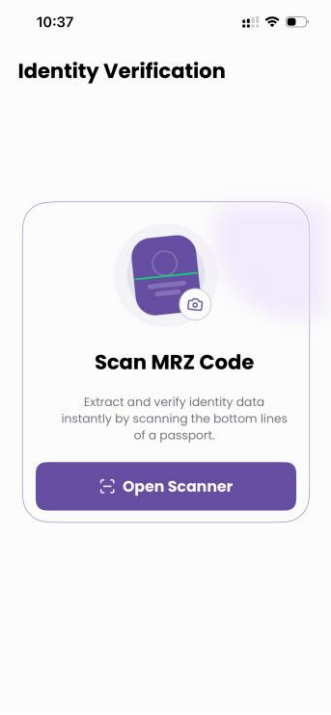
- Developed a native Android application using **Java**, **NFC**, and **MRZ (Machine Readable Zone)** technology for digital identity verification.
- Implemented passport scanning and MRZ extraction to securely retrieve passport details for customer onboarding.
- Integrated NFC-based ePassport reading to validate passport chip data and verify document authenticity.
- Enabled automated KYC verification workflows for bank account registration and customer identity validation for **US and Vietnam passport holders**.

Technologies Used

- Java
- NFC
- Passport NFC (eMRTD) Reading
- MRZ Parsing & Validation
- REST APIs
- Android Native Development

Client

Banking & Financial Services Client – Digital KYC and customer onboarding solution leveraging passport MRZ and NFC verification for secure identity validation.



PROJECT#9. Nexelec TOUCH – NFC Device Configuration App

Play Store

https://play.google.com/store/apps/details?id=com.nexelec.touch&hl=en_IN

Key Features

- Developed a native Android application using **Java** and **NFC** for configuring Nexelec NFC-enabled devices.
- Integrated **STMicroelectronics ST25 NFC microchips** to read and modify device parameters through NFC communication.
- Implemented secure NFC-based device configuration with real-time parameter updates.
- Enabled quick device commissioning and maintenance through a simple tap-and-configure workflow.

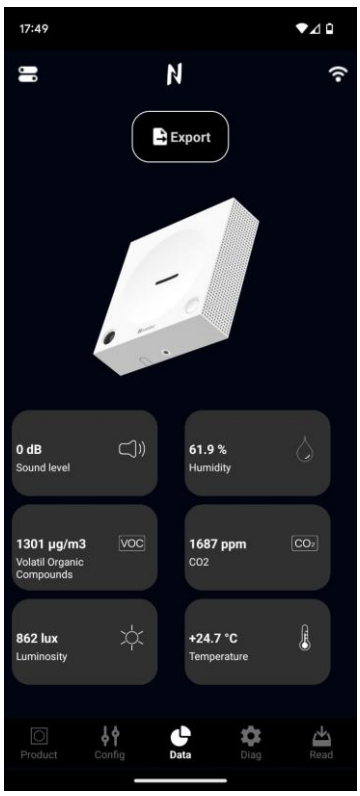
Technologies Used

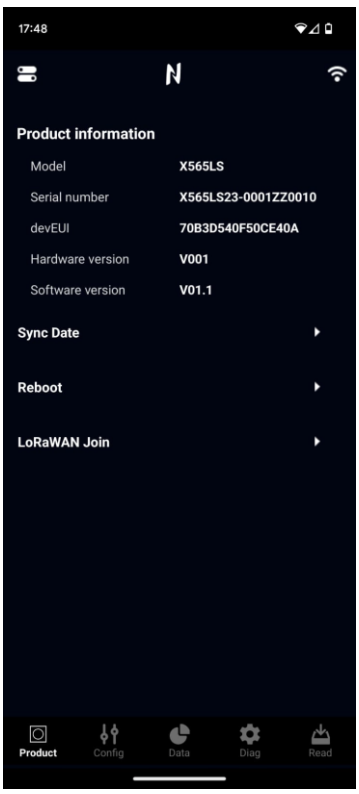
- Java
- Core NFC
- ST25 NFC Microchips
- REST APIs
- Android Native Development

Client

NEXELEC – A French IoT company specializing in connected safety devices, smart sensors, and NFC-enabled industrial solutions.







PROJECT#10. ORB – Play Sport. Meet People

Play Store

https://play.google.com/store/apps/details?id=com.orb.orbioninnovation

Key Features

- Developed a native Android application using **Java** for connecting people through sports and fitness activities.
- Implemented user profile management with sports preferences and skill-based matching.
- Enabled users to create, join, and manage nearby sports activities and events.
- Integrated real-time chat and community features for team coordination and social engagement.

Technologies Used

- Java
- Android SDK
- REST APIs
- Firebase (Authentication & Notifications)
- Google Maps & Location Services
- Android Native Development

Client

Orbion Innovation L.L.C-FZ – A technology company focused on building social and community-driven applications that connect people through sports and fitness.

