

Project Case Study

HYGIENATICS

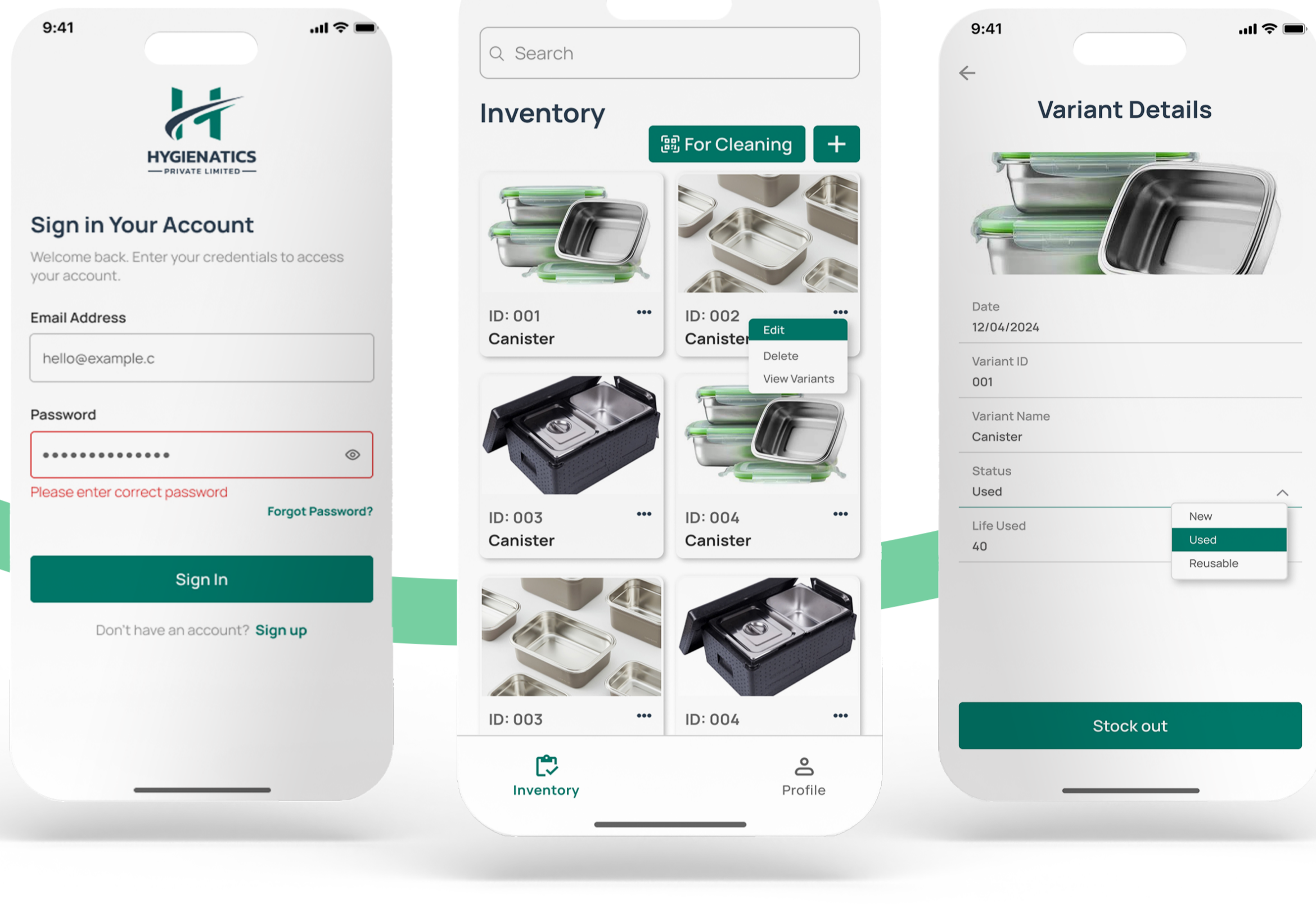


Project Overview

This project aims to develop a mobile application and an accompanying admin panel to streamline inventory management for a company and its customers. The app will empower customers to track their inventory through unique QR codes, categorizing them as "New," "Used," or "Reusable," while offering insights into product lifecycles. Additionally, the admin panel will facilitate customer account creation, order management, enabling a comprehensive and data-driven approach to inventory control.

Core Problem

The current system relies on manual methods for tracking inventory, lacking real-time data and insights. This inefficiency creates challenges in managing stock levels, understanding product lifecycles, and optimizing product development. The proposed mobile app and admin panel address this core problem by automating inventory tracking through QR codes, providing valuable data on product usage and reusability. This information will empower the company to make informed decisions regarding inventory management, product design, and customer service.



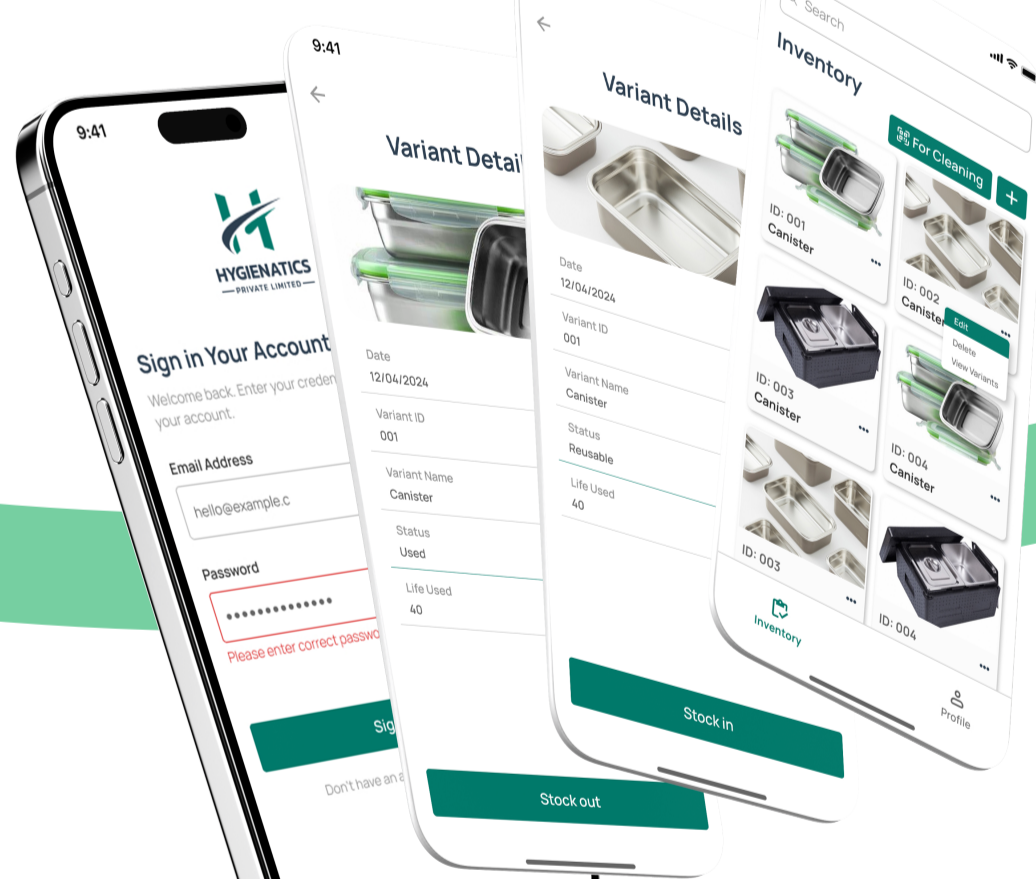
Key Features

- **Account Creation & Secure Login**
Easily register with basic details, set up a password, or log in using company-provided credentials for a seamless and secure experience.
- **Order & Inventory Tracking**
Keep track of order history, monitor order status, and scan QR codes to update canister inventory, ensuring accurate tracking of New, Used, and Reusable items.
- **Payment History Overview**
Access a detailed record of past payments, including transaction dates and amounts, for easy financial tracking.
- **Admin Features**
 - **Customer Management**
Create, edit, and manage customer accounts effortlessly. Maintain membership status, update details, and search for specific customers with ease.
 - **Order & Inventory Oversight**
Monitor order history across all customers, manage order statuses, and track inventory levels to maintain an optimized workflow.
 - **Integrated Payment Management**
View and manage payment records for all customers, ensuring smooth and transparent financial operations.
 - **Informative Website Landing Page**
A dedicated landing page providing essential company details, customer contact options, and a direct link to download the app for easy access.

Technology Stack

Mobile Application (Flutter)

1. Framework: Flutter (for both Android and iOS platforms).
2. State Management: Provider for managing application state and reactive updates.
3. SharedPreferences: For caching lightweight and non-sensitive data like preferences or temporary data.
4. API Integration:
 - o REST APIs integrated using packages like http
 - o JWT token-based authorization for secure communication.
5. Authentication: OTP-based authentication workflow.



Web Application (Backend)

Mobile Application (Flutter)

1. **Framework:** ASP.NET MVC.
2. **Database:** Microsoft SQL Server.
3. **Authentication:**
 - o OTP-based user authentication.
 - o JWT tokens for secure session management.
4. **API:**
 - o REST APIs for CRUD operations.
 - o API documentation with Swagger.



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www.sumatosolutions.com

info@sumatosolutions.com



Thank You