DCCO

FINVORY

Second Semester

Team 4 "The POOwer Rangers of Programming"

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Feature 1: Inventory Management

Description: Focuses on the physical control, location, and persistence of products throughout their lifecycle, including returns and deletions.

- **Data Logging:** Implement the creation of products, suppliers, and customers, each with the corresponding data management. Each customer has a specific type of discount that will be applied at the time of purchase
- **Inventory Location:** Assign specific locations for each inventory to ensure that the user can find the location of products efficiently
- **Obsolete Inventory Management:** Systematically handles returned items (defective or incorrect purchases) in a temporary status until reassignment or disposal.
- **Logical Record Preservation:** Ensures that deleted products remain in the database with a stock of 0 to preserve historical data instead of permanent removal.

Feature 2: Billing

Description: Manages the core sales logic, including multi-tier pricing, automated invoicing, and tax compliance.

- **Automated Client Indexing:** Enables searching for clients by name, RUC, or business name to auto-fill invoice data.
- **Multi-Tier Pricing Logic:** Allows the Company Account to assign and modify three different price points per product based on buyer benefits.
- **I Payment method selection:** It consists of multiple payment methods, including cash, bank transfers, and checks, so you can choose how the invoice was paid
- **Dynamic Tax Configuration:** Allow the entry and updating of the tax (VAT) to automatically perform the corresponding calculations

Feature 3: Reports

Description: Process sales data using automated revenue tracking.

- **Real-time revenue monitoring: Automatically** calculates cumulative gross revenue (TotalGrossProfile) and daily revenue (TotalGrossDay).
- **Stakeholder performance reports:** Analyze the frequency of purchase and sale for suppliers and customers respectively and generate a report corresponding to each group
- **Export Options:** For user convenience the option is given to export the reports either to a CSV or a PDF as requested
- **Filtering:** To guarantee current data, the system offers a filtering option by dates for each report, so that the user can generate reports of different dates without any complication
- **Sales trend analysis:** Allows the identification of the most demanded products to facilitate decision-making by the user

Feature 4: Offline Synchronization & Personal Account

Description: Ensures continuous system operation through offline data management and secure business exploration for personal accounts.

- **Offline mode with data persistence:** When there is no internet connection, the system automatically operates using locally stored data in a JSON file, allowing uninterrupted access and functionality.
- **Automatic data synchronization:** Once the internet connection is restored, the system automatically updates and synchronizes the locally stored JSON data with the central database, ensuring data consistency without user intervention.
- **Business search for personal accounts:** Personal account users can search and view registered companies within the system, accessing their available products in real time.
- **Secure price visibility:** For customer data protection, the system hides the three internal price types associated with each product, displaying only the information necessary for availability verification.
- **Direct business communication:** Enables direct contact with registered companies through WhatsApp by clicking a dedicated contact button, facilitating fast and efficient communication between users and businesses.