# Overview:

This application has been developed to assist distributors and retailers to place bulk orders to different merchants or brands they are associated with, and do it with a single sign-on. Besides the convenience of placing orders, this app also makes it possible for them to see, at one place, all the offers their merchants provide from time-to-time and take them if they desire.  Having begun as a proof of concept, it had a few big names like Coca-Cola, P&G, Heineken, Reckitt Benckiser, Mondelez already included in the list of merchants.  Overall, there are 4 components to the application, with each enabling a core function.

**Launcher:** This handles the registration of distributors/retailers and their mapping to their respective merchants/brands

**Ordering:** This component facilitates access to pricing and other related details, followed by ordering and subsequent status tracking for each.

**Credit:** Besides the COD option this allows distributors/retailers to seek credit assistance from banks with a limit defined based on several factors. Each transaction that needs credit gets executed only after getting the required clearance from the bank.

**Admin Dashboard & Reporting**: There are multiple admin roles defined which come with their own set of functions and permissions. Scheduled reports of different types get generated, for desired timelines, in order to serve different needs.  The component allows generation of adhoc ones too.

# Client details:

**Name:** Confidential  |  **Industry :** Finserv  |  **Location:** Malaysia

# Technologies:

PHP, JAVA, MYSQL, ReactJS, React Native with TDD approach

# Project Description:

This app is a powerful tool in the hands of distributors and retailer as it helps them handle one of their most critical job – procurement. This app enables them to handle from a single point all the activities related to placing orders with their merchants/brands and always being aware of the offers that they are entitled to. The app is driven by 4 components.

**Launcher application:** At the application-level it facilitates activities like user registration, login, and password change etc. and at the brand-level it is customer registration. Users can use their phone numbers or email addresses to register to the launcher application. Twillio API is used to send SMSs to users to verify their phone numbers. A User can then register to the brand level once after successfully getting registered in the launcher. One user can register or link itself to one or more brands. To register a brand, a user should either be already a customer of that brand and should, therefore, possess a valid customer ID or can register as a new customer using this application. The details are sent to the respective brand to complete brand level registration process. Using the details provided by the user, the merchant or brand creates a corresponding new customer entry and sends back the customer details to link with the user in the application.

There are some background schedulers which sync new or existing customer information from SFDC or from FTP/SFTP file location on a daily basis.

**Ordering Platform:** Once a user has successfully registered itself with a brand using the corresponding customer ID in the application, it can view products, products pricings, offers (monthly/date range/yearly) etc. The user can then place orders as COD or credit mode. User can also view order status and order history using the mobile application. The mobile application also provides "offer suggestions" termed as "auto offers" to the users dynamically based on multiple factors such as product purchased quantity, product segmentation, product pricing segmentation etc. The application dynamically calculates GST and there are bank rounding mechanisms applied as per the rules applicable in the country.

Once orders are placed successfully on the platform, the application then generates unique order ids and sends them to the corresponding brands/merchant's SFDC or FTP/SFTP file

location to further processing. The backend application uses SFDC API or FTP/SFTP CSV files to update order status.

There are background schedulers or scripts which sync new or existing products, product pricings, offers (monthly/date range/yearly) etc from SFDC or from FTP/SFTP file location on regular basis. Thus, this makes the whole process automated.

**Credit Platform**: While placing an order from the application, a user can either select cash on delivery i.e. COD or the credit option. For the latter case, the application is associated with a bank which provides credit facility to the user.

The bank provides a credit limit to each user, which the user can avail while placing an order. Once an order is placed, order details are sent to the bank for authorization and the bank then approves/rejects it after checking details such as order amount, credit available etc.. If the bank approves the amount then the order is placed to the merchant/brand for its processing. After the order is delivered, the details are submitted back to the bank to capture the settlement amount and a due date is generated. Due date is the deadline date set for the payment of the order. Now the retailer has to do the payment for the order before the due date. Otherwise, the retailer won't be able to place next order.

**Admin Dashboard and Reporting:** There are different types of admin roles assigned with varying degrees of permissions. There are features that allow an admin user to perform functions at the Launcher and Brand level like user management, product, product pricing, offer, sending news/messages, FAQ's, push notification etc.

Jasper reports is used to generate daily, weekly, monthly and yearly statistical reports for internal and brand business users. Reports like new customer registration, sales order etc. are generated brand wise and sent to respective brand business users.

## Architecture Diagram: