Project Summary

The project involved developing an android application for a tablet which is a part of a kit. This kit is used by merchants/shoppers to place orders for products and also to raise top-ups requests. In a B-to-B setup, this application automates the process of raising orders; thus offering convenience. It also enables them to avoid losing out on getting the financial benefits from discounts and offers due to lack of awareness or time lag in responding.

About our Client:

Client Name: Confidential | Location: Ireland | Industry: Retail

Technologies:

Client Side

Android SDK (v4.1 and above), Android Development Tools v24.1.2, SQLite Database, USB Accessories, Printer.

Server Side

PHP, Symfony, Doctrine and Mysql

Project Description:

This software is used by the client for B-to-B transactions with its merchants/shopkeepers. By removing the earlier hassles related to doing things manually, it made the whole process of handling orders from merchants convenient for both the stakeholders. Besides saving time and offering secure data communication, the application ensured that the merchants never missed out on offers and discounts as a result of the direct communication channel which got established.

Merchants are required to buy a kit comprising of a tablet with a pre-installed android application, printer and scanner. Using it, they can place fresh orders or request for top-ups. The method in which it gets done is that every merchant is allocated an account. Monthly

payments made by merchants reflect in their corresponding accounts and gives them the liberty to trigger order and top-up transactions on a need basis.

The android application consists of 2 modules:

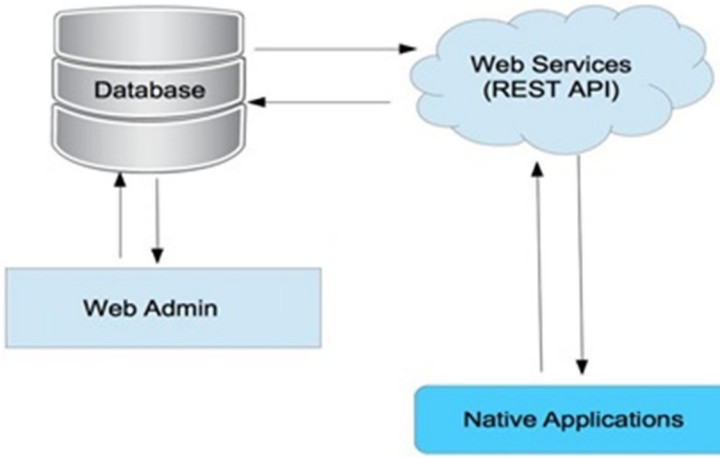
Module 1

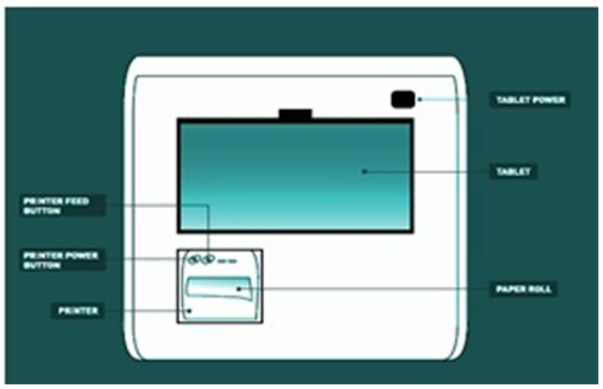
This module allows merchants to place orders for various products with outmost ease along with information on the delivery dates. Paying options made available to them include cash on delivery and payment by account balance. They also get instant access to available discounts, offers and their order history.

Module 2

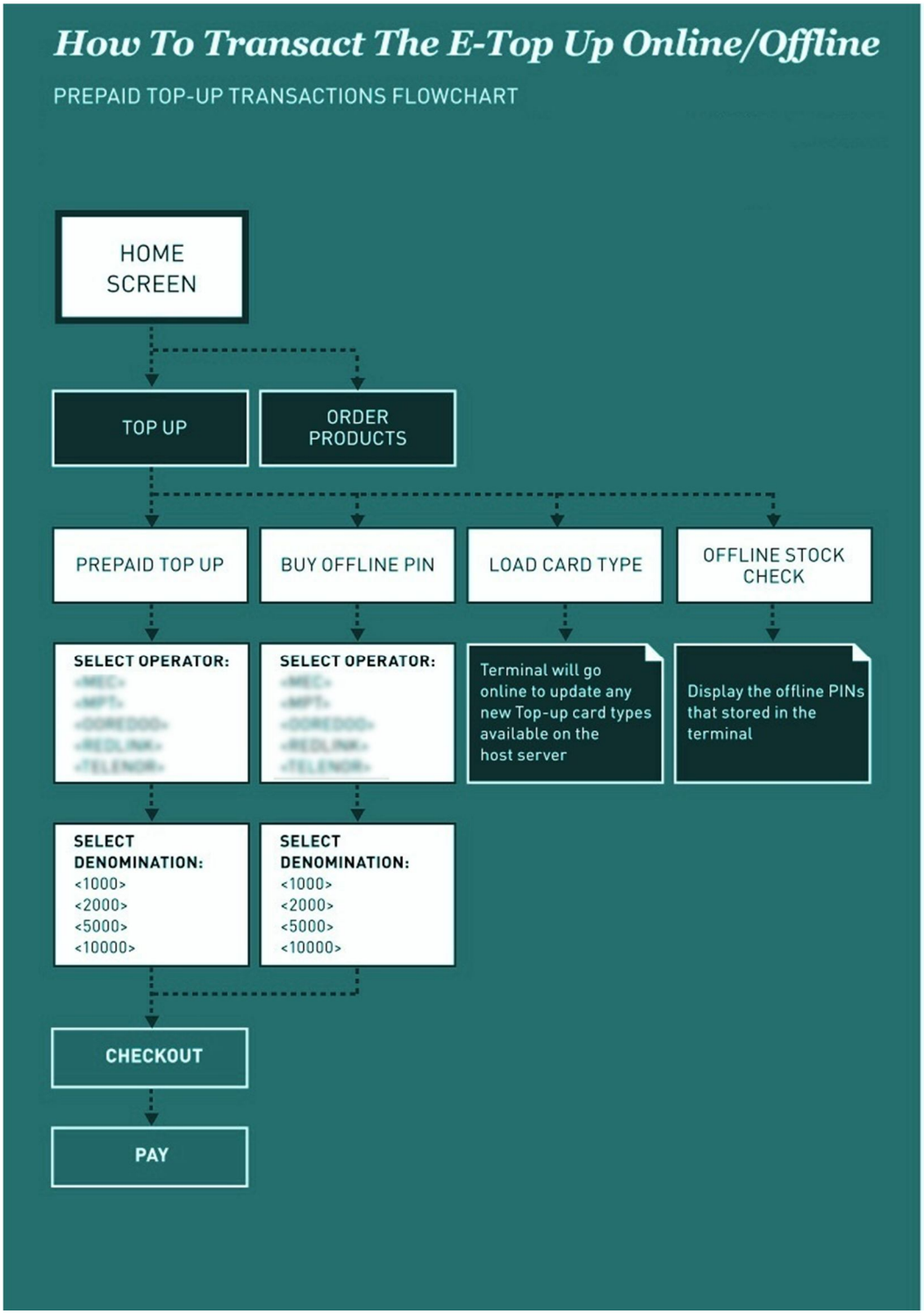
This module eases the process of doing mobile recharge top-ups. Merchants are also allowed to do offline recharges if compelled to deal with poor or lack of network coverage. There is a Stock Check Module available to allow them to check details of stocks offline. The Transaction module enables the merchants to keep a track of all transactions and recharges.

Architecture Design





Workflow


How To Transact The E-Top Up Online/Offline
PREPAID TOP-UP TRANSACTIONS FLOWCHART
HOME SCREEN
TOP UP
ORDER PRODUCTS
PREPAID TOP UP
BUY OFFLINE PIN
LOAD CARD TYPE
OFFLINE STOCK CHECK
SELECT OPERATOR:
SELECT OPERATOR:
Terminal will go online to update any new Top-up card types available on the host server
Display the offline PINs that stored in the terminal
SELECT DENOMINATION:
<1000>
<2000>
<5000>
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SELECT DENOMINATION:
<1000>
<2000>
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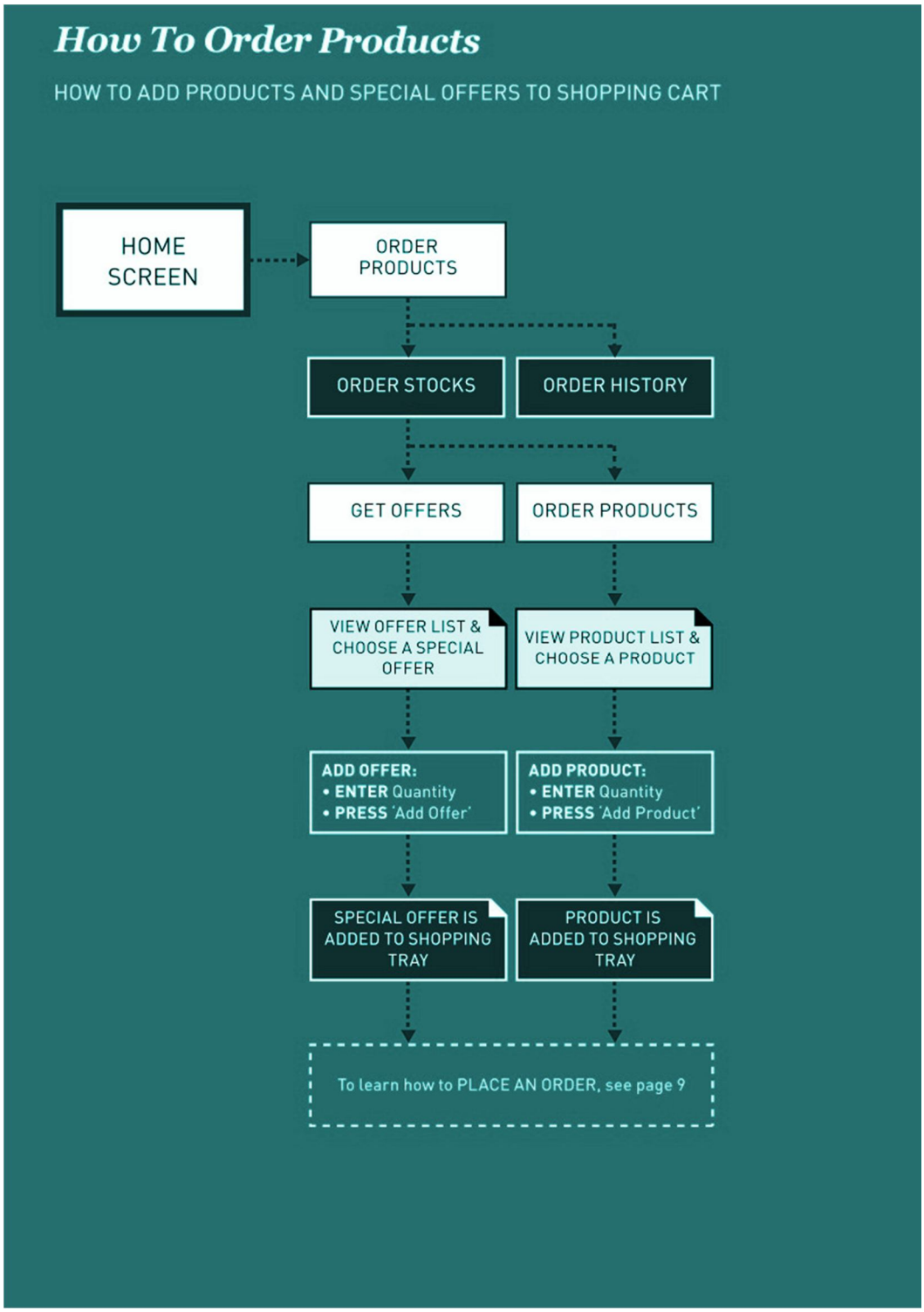
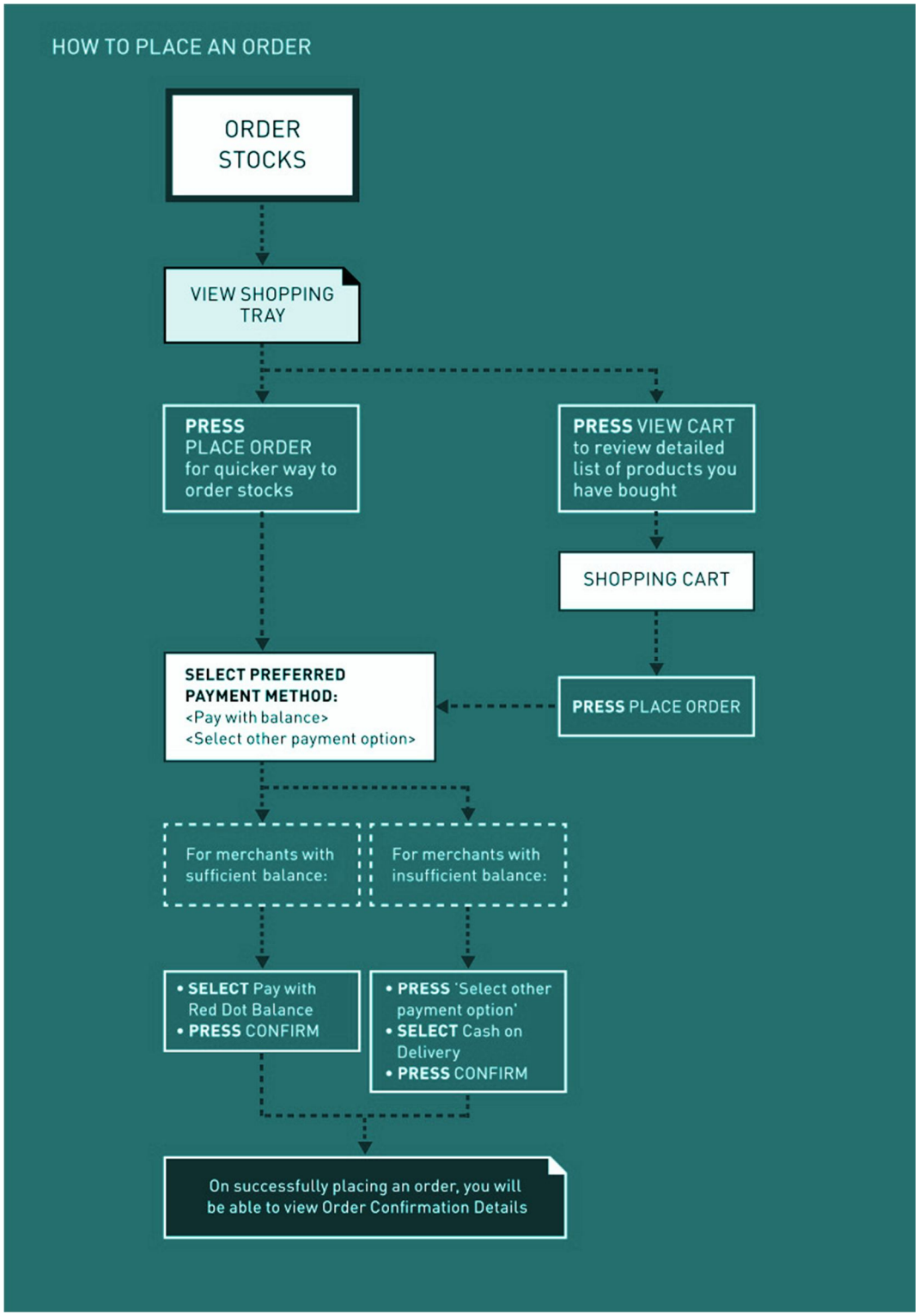
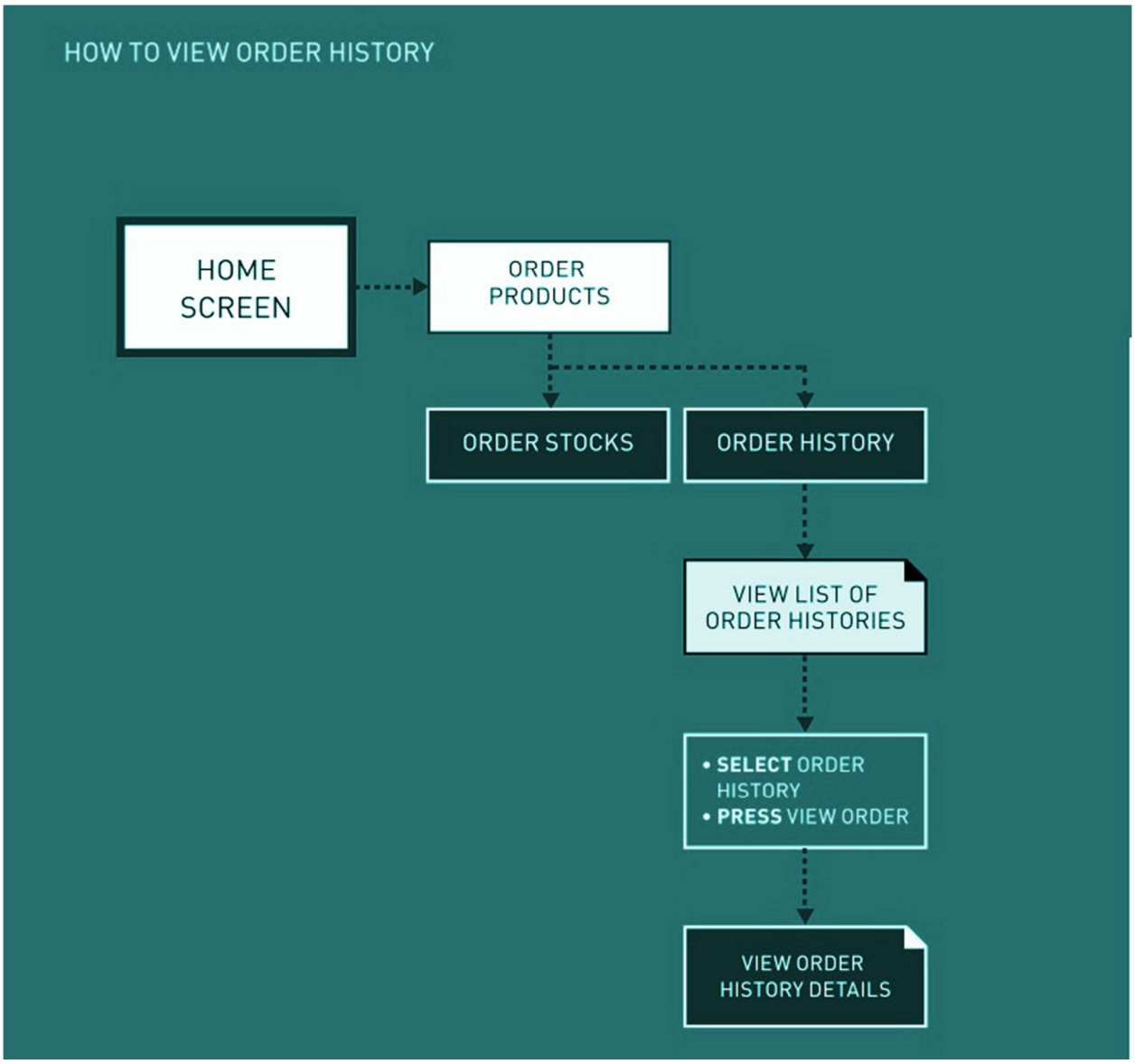
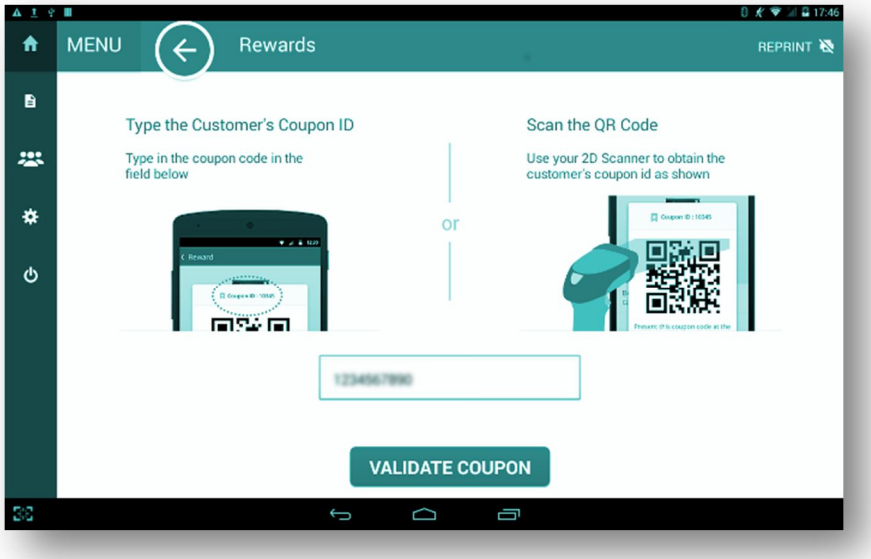
<10000>
CHECKOUT
PAY


How To Order Products
HOW TO ADD PRODUCTS AND SPECIAL OFFERS TO SHOPPING CART
HOME SCREEN
ORDER PRODUCTS
ORDER STOCKS
ORDER HISTORY
GET OFFERS
ORDER PRODUCTS
VIEW OFFER LIST & CHOOSE A SPECIAL OFFER
VIEW PRODUCT LIST & CHOOSE A PRODUCT
ADD OFFER:
• ENTER Quantity
• PRESS 'Add Offer'
ADD PRODUCT:
• ENTER Quantity
• PRESS 'Add Product'
SPECIAL OFFER IS ADDED TO SHOPPING TRAY
PRODUCT IS ADDED TO SHOPPING TRAY
To learn how to PLACE AN ORDER, see page 9

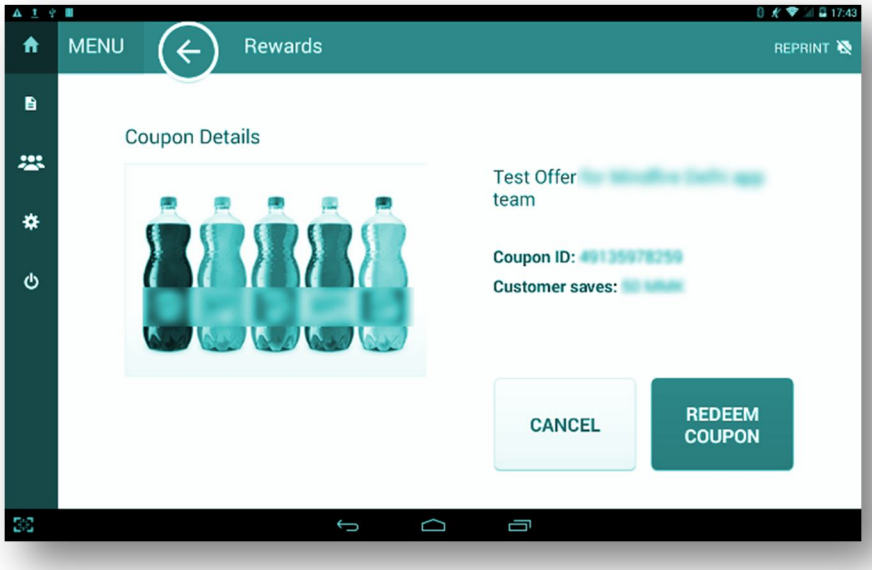

HOW TO PLACE AN ORDER
ORDER STOCKS
VIEW SHOPPING TRAY
PRESS PLACE ORDER for quicker way to order stocks
PRESS VIEW CART to review detailed list of products you have bought
SHOPPING CART
PRESS PLACE ORDER
SELECT PREFERRED PAYMENT METHOD:
<Pay with balance>
<Select other payment option>
For merchants with sufficient balance:
For merchants with insufficient balance:
• SELECT Pay with Red Dot Balance
• PRESS CONFIRM
• PRESS 'Select other payment option'
• SELECT Cash on Delivery
• PRESS CONFIRM
On successfully placing an order, you will be able to view Order Confirmation Details


HOW TO VIEW ORDER HISTORY
HOME SCREEN
ORDER PRODUCTS
ORDER STOCKS
ORDER HISTORY
VIEW LIST OF ORDER HISTORIES
• SELECT ORDER HISTORY
• PRESS VIEW ORDER
VIEW ORDER HISTORY DETAILS

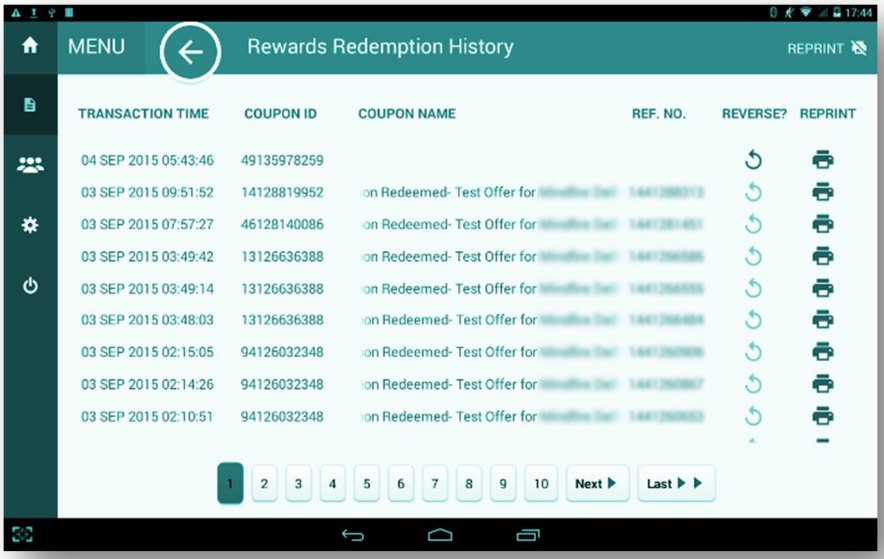
Screenshots



Screen1: Reward Coupon entry screen



Screen2: Coupon Redemption screen



Screen3: Reward Redemption screen