1. 黃色字係主要功能，其他唔一定要做到

2. 不用上架

3. The client prefers the app to be built with ionic (not react native)

4. The client prefers the backend to be built with better-sqlite3.

Can use knex with quick-erd to do schema migration but not the query builder;

Can use better-sqlite3-proxy and better-sql.ts or raw sql for querying.

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|  | 1. 兼容IOS、安卓雙系統（暫不用上架） 2. 繁中、英雙語言切換 |
| **A.商品庫存管理(Staff Only)** | 1. 商品建立，支援批量上傳、照片匯入  2. 針對單一商品，可編輯主要及次要圖片、名稱、價格、重量、規格、支付方式、物流等資訊  3. 多層商品分類及自訂商品展示排序  4. 預設商品上架和銷售時間  5. 贈品，可設定贈品的觸發條件及活動時間  6. 加購品，可選擇是否綁定主商品、設定生效時間和加購數量限制  7. 多規格商品及預購商品  8 商品缺貨提醒，可針對熱賣或特定商品設定  9. 管理全部商品、加購品與贈品的庫存，可同步管理 |
| **B.付款管理(Staff Only)**  **Evidence upload webpage**  **(Customer Only)** | 1. 自動更新交易記錄、過帳日期、交易退款狀況、訂單查核等  2. 支援 PayPal、PayMe、轉數快、到店付款  Get it done with the easy way first. Such as, evidence of the payment(photo) uploaded by the customer and approved/confirmed by the staff. Plus the customer can choose to settle the payment in store.  Status showed: waiting upload, waiting confirm, confirmed, cancelled  Uploads file: store one photo only, use user\_id/order\_id to determine the file name.  Every upload will overwrite the old one. |
| **C.購物車(Customer Only)** | 1. 自動計算運費及稅項  2. 恢復未完成結帳流程  3. 棄置購物車恢復  4. 可按固定價格、層級定價、重量計算和以地點計算等設定運費  5. 可選擇運費由寄方/收方支付 |
| **D.訂單管理(Staff Only)**  **- Order Lookup（Customer）** | 1. 訂單資訊，以訂單日期編號、客戶編號、商品名稱等條件搜尋  2. 退貨管理 (Contact the staff) ，針對訂單內的單項商品及數量建立（Update DB） \*OPTIONAL: Email to the customer automatically/ Email to customer by staff |
| **E.客戶管理(Staff Only)** | 1. 支援 Email、手機號碼註冊/登入 (Oauth – GOOGLE Acc.)  2. 會員等級與專屬價格，針對不同等級設定升級條件  （only based on how much you have paid in eShop, Challenge: within a year/period）、  - VIP 價格：Backend Logic  VIP can enjoy a fixed % discount for every product based on the original price.  \*\* The staff can easily change the % by changing one variable inside the managing panel.  3. 客戶管理，列表及會員等級，及自動記錄過往訂單、購物金、點數記錄等 |
| **F.優惠管理(Staff Only)** | 1. 免運，設定條件：滿額、滿件、指定商品、分類或全店等  2. 贈品，可指定分類/全部商品，定額或定件  Conditions:   1. The total amount of the invoice is over $3000. 2. The customer has bought over 3 items and each of them is over $1000.   Staff：Staff can choose what items could be chosen as a gift. (CheckBox/List)  \*\* Logic behind: shows different page when the total amount over a specific number.  Gift List -> isolated webpage/ Popup  Example: over $5000=>{}, over $2000=>{} , over$500=>{}  Statement:  If ($$ > 5000) {most valuable gift},  else if ($$<5000) && ($$>2000) {more valuable gift},  else if ($$<2000) && ($$>500) {regular gift}  else ($$<500) && ($$>0) {no gift}  \*\* The number must be over 0 to prevent minus number inputted by user in DOM directly.  Website Area: <INPUT type=”radio”> => Then customer can choose only one gift.  指定等級會員/全部客戶: 0/1 -> 0: normal customer, 1: VIP  3. 折扣，可設定百分比或固定金額折扣  Provide a text area for customer to use the PROMOTION CODE. (could be null)  Promotional code: % / absolute $$ value / NULL  4. 購物金 (Cash Coupon) 可設定使用門檻 手動發送生日購物金, 滿額購物金 \*\*absolute value  Cash dollar given by store when your birthday comes/ over ?? amount  Can only be used in any order placed, cannot exchange into cash.  5. 會員點數，建立兌換贈品的規則  Shop to get the POINT with (any rules), the point can be used to exchange for the specified products. |
| **G.營運管理(Admin Only)** | 1. 多組管理權限，包括店長及管理員帳戶  3 level (Admin > Staff > Customer)  Use Enums@SQL to set the level  2. 權限管理，可指定不同層級的管理權限  Admin account have only 1 function which is PERMISSION CHANGING ONLY!! |