**POS Specification v1 – Grocery/FMCG**

**1. Vision**

A **lightweight, keyboard-first POS system** for small grocery & FMCG shops.  
Core values: **fast scan-to-bill, Sinhala/Tamil invoicing, simple discounts, tiered pricing, CSV bulk tools, multi-terminal support, and cloud config backups**.  
Target: **300+ invoices/day**, up to **500+ products**, **100+ suppliers**, simple customer categories.

**2. Core Features**

**2.1 Sales & Checkout**

* Scan adds product with qty=1, repeat scan increments qty.
* Barcode-scale reads product + weight/price.
* Keyboard-only checkout (scan, discount, pay, print).
* Payment: cash, card, QR/wallet, split.
* Hold & Resume bills.
* Print invoice in **English/Sinhala/Tamil**.
* Price tier per invoice: **Retail (default), Wholesale, Credit, Other**.

**CSV export:** daily invoices.

**2.2 Discounts**

* Line discount: % or fixed.
* Group discount rules with caps (e.g., Sugar max 3kg → Rs.10/kg).
* Auto prevent over-discount.

**CSV import/export:** discount rules.

**2.3 Products**

* Fields: SKU, barcode(s), names (EN/SI/TA), unit, category, tax code, supplier,  
  **Retail, Wholesale, Credit, Other prices**.
* 500+ product capacity.
* Optional: reorder level, preferred supplier.

**CSV import/export:** full product catalog with tier prices.

**2.4 Price Management**

* Grid view: Product | Retail | Wholesale | Credit | Other.
* Bulk inline edit.
* Bulk price rules (e.g., Wholesale = Retail − 5%).

**CSV import/export:** price sheet only.

**2.5 Suppliers**

* 100+ suppliers supported.
* Fields: Name, phone, email, address, tax ID.
* Link to products.

**CSV import/export:** supplier list.

**2.6 Customers**

* Categories: Retail, Wholesale, Credit, Other.
* Fields: Name, phone, type, notes.
* Selecting customer auto-applies tier.

**CSV import/export:** customer list.

**2.7 Inventory (lightweight)**

* Stock on hand.
* Receive stock.
* Adjust stock.
* Low-stock alerts.

**CSV import/export:** stock levels.

**2.8 Reports**

* Daily/weekly/monthly sales.
* Sales by tier (Retail/Wholesale/Credit/Other).
* Top items/categories.
* Discount usage.

**CSV export:** all reports.

**2.9 Settings**

* Store info (name, address, tax ID, logo).
* Devices (printer, scanner, scale).
* Default language.
* Keyboard shortcuts.
* Permissions: cashier/manager.

**CSV/JSON export:** configuration.

**2.10 Backups**

* Cloud config backup (daily + on change).
* Restore last config.
* Retain last 30 daily + 5 config-change backups.

**CSV export:** backup logs.

**3. Multi-Terminal Support**

* 1 server PC + 3–4 client PCs on LAN/Wi-Fi.
* Clients sync live with server.
* Offline queue if server disconnects.
* Terminal name appears on receipts.

**4. Acceptance Criteria**

* Scan → cart < 150ms, Pay → print < 2s.
* 300+ invoices/day per terminal.
* Multi-terminal sync ≤ 1s.
* Invoices print in Sinhala/Tamil correctly.
* Price tier default = Retail, but can switch per invoice.
* All master pages have CSV import/export with validation + preview.
* Cloud backup triggers nightly + on config change.

✅ **Scope locked for v1.**  
this version is production-lightweight, fast, and covers all must-haves.

👉 next step, i can create **Cursor AI build prompts (page-by-page)** so you can start building each screen (Sales, Products, Price Management, etc.) in the correct order.