

POS Web App Functional & Design Requirements

1. Excel Data Upload

- Upload .xlsx or .xls file with the following columns: Description (or Item), Price, ScanCode (or Code), VAT
- On successful upload:
 - Hide the upload section.
 - Show the main POS interface.
 - Autofocus the scan/search input.

2. Search / Scanning with Autocomplete

- Real-time suggestions as user types or scans.
- Suggestions include: Product Name, Product Code, Price
- Use fuzzy matching for partial matches.
- On selecting an item:
 - Add to cart table
 - If already in cart, increment quantity
 - Clear search box and refocus

3. Cart & Billing Table

- Display columns: Product Name, Quantity, Unit Price, Line Total
- Auto-calculated totals: Grand Total, Bill Amount

4. Cash Payment Modal

- Popup modal with:
 - Total Bill Amount
 - Cash Received input
 - Auto-calculated Change
 - Validation for insufficient cash

5. Multi-Payment Support

- Allow split payments between: Cash, M-Pesa, Credit Card
- Validate total allocation matches Grand Total

6. Receipt Generation

- Professional receipt layout with:
 - Business Name, Date & Time (hh:mm:ss)
 - Items, Quantities, Totals, Payment Breakdown

- - Footer with return policy
- Auto-save receipt and preview popup

7. End-of-Day Report

- 'End of Day' button triggers summary of:
- - Total transactions
- - Item sales statistics
- - Payment method breakdown
- - Printable report

8. UI/UX Design

- Modern responsive design for mobile & desktop
- Gradient headers, stylish buttons, smooth transitions
- Icons, validation, and collapsible layout

9. Additional Functionalities

- VAT calculations for both 16% and 0%
- Flexible Excel header handling (e.g. Description or Item)
- Persistent transaction history (optional future)

10. Technologies to Use

- HTML, CSS, JavaScript
- `xlsx.full.min.js` for Excel reading
- No backend required (optional future: Google Sheets, Telegram)