**Saral Vyapar - Brainstorm & Scoping Document**

Project: Saral Vyapar - Web-based POS System  
Vision: To build a modern, intuitive, and feature-rich Point-of-Sale system designed for small to medium retailers in India, prioritizing a seamless user experience with minimal clicks.

1. Core Project Goals

* Seamless Onboarding: Get a new user from signup to being ready for their first sale in the shortest time possible.
* Efficient Operations: Design the billing and inventory modules for maximum speed and clarity.
* Actionable Insights: Provide a powerful analytics dashboard that offers genuine value and helps owners understand their business.
* Modern & Accessible: Build a responsive web application that works flawlessly on both desktops and mobile phones using a robust, modern tech stack.

2. Features Matrix (Minimum Viable Product)

Here is the detailed breakdown of the features agreed upon for the initial launch.

| **Module** | **Feature** | **Description** |
| --- | --- | --- |
| Onboarding | Email/Password Signup | Standard, secure account creation. |
|  | Shop Creation Wizard | A guided, one-time setup for essential details (Name, Address, GST No.). |
| Product Management | Manual Product Entry | A clean form to add products one by one. |
|  | Flexible Product Variations | An interface to add custom variations (e.g., Size, Color, Weight) with separate stock counts for each. |
|  | Excel/CSV Import | A crucial feature for bulk-importing a product catalog. |
| Inventory Mgmt. | Automatic Stock Deduction | Inventory is automatically updated when a bill is generated. |
|  | Status Alerts | The system will flag products as "Low Stock" or "Out of Stock". |
|  | Manual Stock Updates | A simple interface for the owner to manually record new inventory arrivals. |
| Billing Module | Powerful Product Search | The primary method for adding items to a bill. |
|  | Quick Access & Top Seller Tabs | Customizable and automated tabs for quickly adding common products. |
|  | Optional Customer Details | A simple pop-up to log customer name and phone number per bill. |
|  | Payment Method Logging | Buttons to log the payment type (Cash, Card, UPI) without gateway integration. |
|  | Bill Generation & Preview | An HTML preview of the final invoice with a "Print / Download PDF" option. |
| Analytics Module | KPI Dashboard | Real-time view of Today's Sales, Top Selling Products, Peak Sales Hours, etc. |
|  | Inventory Analysis | Reports on Fast-Moving vs. Slow-Moving Stock and Stock Aging. |
|  | Sales Trends | Charts to visualize sales performance over various date ranges. |

3. Deferred Features (Post-MVP)

These are valuable features that we have consciously decided to build in a future version to keep the initial launch focused.

* User Roles & Permissions: (e.g., Owner vs. Cashier roles).
* Barcode Scanner Integration: Full support for hardware scanners.
* Discounts & Offers Module: Applying complex discounts per-item or on the total bill.
* Returns & Credit Note System: A formal workflow for handling product returns.
* CRM-style Customer History: Detailed analysis of individual customer spending habits.
* Automated Purchase Orders: A system for generating and tracking POs to suppliers.

4. Agreed Technology Stack

* Platform: Responsive Web Application (works on laptops and phones).
* Core: MERN Stack (MongoDB, Express.js, React, Node.js).
* UI Components: Shadcn UI for a clean, modern, and customizable user interface.

This document is now complete. It captures the full scope and design philosophy for "Saral Vyapar."