**POS System for a Jewellery Shop**

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**Introduction**

This project aims to develop a feature-rich Point of Sale (POS) system for retail, addressing challenges in traditional registers, data management, security, and user engagement. Key features include efficient transaction processing and real-time inventory management. The project requires expertise in software development, UX design, and data analysis. The product is a user-friendly, secure, and scalable POS system with comprehensive documentation. The document defines completeness criteria, challenges, knowledge areas required, learning outcomes, and the nature of the product. It also discusses initial literature survey and miscellaneous project aspects.

**Functionalities**

**1. Quick Product Search: Allow cashiers to easily find and add products to transactions.**

**2. Discount Options: Provide a straightforward way to apply discounts during transactions.**

**3. GST Tax Adjustment: Enable cashiers to adjust GST tax amounts as needed.**

**4. Return Payment Calculation: Implement an automated calculation for return payments.**

**5. Barcode Generation: Let users generate new barcodes when required.**

**6. Barcode Reusability: Ensure barcodes are available for reuse after items are sold.**

**7. Automated Receipts: Automatically generate detailed receipts for sales transactions.**

**8. Editable Digital Receipts: Allow the system to edit digital receipts for returns or exchanges.**

**9. Easy Product Addition: Simplify adding new products to the inventory with prompt inputs.**

**10. Stock Level Alerts: Send real-time alerts for low stock and products needing reorder.**

**11. New Stock Recording: Provide a simple method to record new stock arrivals.**

**12. Damaged Items Handling: Allow users to mark items as damaged, updating stock levels.**

**13. Inventory Display: Create a user-friendly interface for viewing current inventory.**

**14. Credit Sales Recording: Record credit sales with customer details and time limits.**

**15. Bad Debt Visualization: Show a simple graph of bad debt records over the previous quarters.**

**16. Detailed Debtor List: Generate an easy-to-read list of debtors based on payment owed.**