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SOP Document for FCC Canteen Project

1. Introduction:

- The FCC Canteen Project aims to streamline the canteen operations by implementing a barcode-based system for sales, managing inventory, and tracking student purchases. This document outlines the user requirements for the successful implementation of the project.

2. Project Overview:

- The project involves the establishment of a canteen system with four sales points, each equipped with a unique barcode and fingerprint machine for student identification.

3. User Profiles:

- **Admin:** Responsible for system configuration, updating sales prices.
- **Supervisor:** Generates reports and oversees system operations.
- **Sales Staff:** Utilizes the barcode system for product sales and manages student purchases.
- **Students:** Make purchases using their fingerprint for identification.
- **Purchase Recorder:** Responsible for recording purchase information in the system.
- **Account User:** Authorized to update student credit balances.

4. Functional Requirements:

- Each product will have a unique barcode for sales identification.
- Four sales points, each with a dedicated barcode and fingerprint machine.
- Manual entry for product selection in case of barcode issues.
- Manual entry for student identification if the fingerprint machine is not functional.
- Manual selection of student cadet ID for identification.
- Credit limit set for each student (maximum limit: 600).
- Automatic deduction from the student's credit on purchase.
- Admin-only access to update sales prices.

5. Non-functional Requirements:

- Performance expectations for the fingerprint and barcode systems.
- Security measures for student identification and transaction processing.
- Compatibility with existing systems in the FCC.

6. System Interfaces:

- Integration with four fingerprint machines for student identification.
- Integration with barcode scanners at each sales point.
- Manual entry interfaces for both product and student identification.

7. Data Requirements:

- **Inventory Records:**
 - Item Code
 - Item Name
 - Item Picture
 - Purchase Quantity
 - Purchase Price
 - Average Price
 - Sales Price
 - Damage Quantity
 - Damage Price
- **Student Information:**
 - Student Cadet ID
 - Student Photo
 - Name
 - Credit Limit
 - Current Balance

- **Sales Transactions Data:**
 - Date
 - Student Cadet ID
 - Item Code
 - Quantity Sold
 - Total Price

8. Constraints:

- The credit refill should not exceed the maximum credit limit.
- Sales price update restricted to admin access only.

9. Assumptions and Dependencies:

- Assumption that the fingerprint and barcode systems will be reliable.
- Dependency on the availability of four fingerprint machines and barcode scanners.

10. Risks:

- Risks associated with system downtime for fingerprint or barcode systems.
- Risks related to data security and privacy.

11. User Acceptance Criteria:

- Successful identification and purchase using both fingerprint and barcode systems.
- Accurate deduction from the student's credit.
- Error-free manual entry interfaces.

12. Sign-off:

- Formal acknowledgment by key stakeholders that the document accurately represents the user requirements.

13. Reports:

- Current stock report.
- Date-wise stock report.
- Student product purchase history (date-wise).
- Daily canteen sales history (date-wise, Item wise).
- Daily purchase history (date-wise)

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