Requirements

A. User Requirements

- **Supplier Management**

REQ-1: Suppliers shall be able to register within the system providing their name, contact details and payment preferences.

REQ-2: Registered suppliers shall be able to securely log in to view their transaction history and payment information.

REQ-3: The staff shall be able to enter supplier details their name, weight of tea leaves sold and quality of tea leaves sold minimizing manual entries.

REQ-4: The staff shall be able to view all suppliers' payment records.

REQ-5: The staff shall be able to generate daily and monthly reports providing summary information about supplier deliveries and payments.

REQ-6: The system administrator shall be able to manage user access to the system, but ensure only authorization staff can create or edit records and generate reports regarding suppliers.

- **Inventory Management**

REQ-1: The staff shall have the capability to log incoming tea leaves and categorize them by weight and quality.

REQ-2: The staff shall have the capability to inventory raw leaves that have been processed into finished tea.

REQ-3: The production manager shall be able to request raw materials (tea leaves) from suppliers.

REQ-4: The production manager must be able to schedule tea processing based on available stock.

REQ-5: The staff shall be able to view and generate daily and monthly reports for inventory stock, processing activities and production performance.

REQ-6: Admins must be able to manage user access and ensure that user access and reporting is handled only by the authorization staff.

B. System Requirements

- **Functional Requirements**

Supplier Management

REQ-1: The system will provide an interface for Supplier Registration that allows name, contact details and payment preferences to be entered and saved securely to the system's database.

REQ-2: The system shall provide a secure login for verified Suppliers, which will facilitate entry to their independent transaction reporting and payment history.

REQ-3: The system shall allow staff to record a Delivery including supplier details, weight of tea leaf and quality information. The system will provide validation checks in order to minimize data entry errors at the time of input.

REQ-4: The system will automatically generate a receipt at the point of delivery entry, which will be accessible in print and/or digital form.

REQ-5: The system will generate summary reports for suppliers' deliveries each day and each month, thus ensuring up to date payments are maintained and in compliance.

REQ-6: The system will include role-based access controls to ensure only those staff approved and trained will have the ability to access supplier tasks and or sensitive data.

Inventory Management

REQ-1: The system shall provide logging of incoming tea leaves, including weight and quality characteristics.

REQ-2: Inventory data shall be continuously and actively monitored and real time alerts shall be generated once stock is low or excessed.

REQ-3: Inventory shall be automatically updated once raw tea leaves are processed into tea.

REQ-4: Each batch of processed tea shall be tracked and labeled in profiling every tea product, with adherence to traceability standards.

REQ-5: The system shall allow for production managers to submit requests for raw materials (tea leaves) from a warehouse inventory.

REQ-6: The system shall allow for scheduling tea processing based on real-time inventory.

REQ-7: Reports summarizing inventory stock and processing activities and performance shall be automatically compiled on at least a daily and monthly basis.

REQ-8: The system shall notify the user with real-time alerts when stock is low or excessed.