

Information Technology Project (IT2080)

Group: ITP24R_B2_08

Agile Activity Report



Tea Estate Management System for Bio Tea Factory

Team Members

DE SILVA R K D H	IT22001252	Employee Management System
PIYARATNE U A D T	IT22088550	Inventory Management
HERATH D M S T	IT22639776	Transport Management
VIVIPEM L B R V	IT22639844	Supply Management
JANUKSHAN S	IT22635266	Field and Harvest Management
RANDENIYA A.A.S.L.B.R.P.W.R.C	IT22236500	Sales and Order Management
MIHISARANI A K S	IT22175366	Product management
ASATH MM	IT22633422	Repair & Maintenance management

Introduction

Bio Tea Factory, located in Haputale, Sri Lanka, is a premier certified organic tea manufacturer and exporter, supplying organic black and green tea to over 80 countries worldwide. With a workforce of 500 employees managing 900 hectares of tea plantations, the factory plays a crucial role in the global tea industry. Despite its significant international presence, Bio Tea Factory's operations remain predominantly manual, including key tasks such as record-keeping, inventory management, and sales tracking.

This manual approach, while traditional, introduces inefficiencies, inaccuracies, and a higher likelihood of errors in managing the factory's operations, from the plucking of tea leaves to the processing and storage of tea, and the eventual sales through auctions. As the tea industry increasingly turns towards technological solutions, there is a growing need for Bio Tea Factory to modernize its processes.

Implementing advanced software systems could vastly improve data accuracy, streamline operations, and facilitate better decision-making. By transitioning to digital solutions, Bio Tea Factory would not only enhance its productivity but also strengthen its competitiveness in the global market, supporting its mission to lead a sustainable and innovative tea industry in Sri Lanka.

Epic- Employee Management System

IT22001252 DE SILVA R K D H

Feature	User Story ID	User Story	Task
Employee Records Management	111	As an HR manager, I want to create and maintain detailed employee records so that I can keep track of employee information.	<ol style="list-style-type: none">1. Create a database schema for employee records.2. Develop forms for data entry and updates.3. Implement data validation.4. Store records in the database.
Account Management	112	As an HR manager, I want to manage employee accounts so that I can update, modify, or deactivate accounts when necessary.	<ol style="list-style-type: none">1. Implement account updates, modify, and deactivate functionalities.2. Validate changes.3. Reflect changes in the database.
Report Management	113	As an HR manager, I want to generate detailed reports on employee data so that I can analyse the workforce.	<ol style="list-style-type: none">1. Design report templates.2. Develop report generation logic.3. Fetch data from the database.4. Display or export reports in the desired format.
Leave Approval Management	114	As a manager, I want to approve or reject leave requests so that I can manage team availability effectively.	<ol style="list-style-type: none">1. Develop an interface for managers to review leave requests.2. Implement approval/rejection logic.3. Update leave status in the system.
Attendance and Leave Tracking	115	As an HR manager, I want to track employee attendance and leaves so that I can maintain accurate attendance records.	<ol style="list-style-type: none">1. Develop attendance tracking functionality.2. Integrate leave records.3. Validate and store data in the database.4. Generate attendance reports.

Leave Request	116	As an employee, I want to request leaves through the system so that I can easily apply for time off	<ol style="list-style-type: none"> 1. Create a leave request form. 2. Validate request details. 3. Submit the request to the manager. 4. Notify the employee of the request status.
Job Posting Management	117	As an HR manager, I want to create and manage job postings so that I can attract qualified candidates for open positions.	<ol style="list-style-type: none"> 1. Design job posting templates. 2. Implement a posting management interface. 3. Validate job details. 4. Publish and manage job postings.
Salary Calculation	118	As an HR manager, I want to calculate monthly salaries and allowances based on employee designation and performance so that I can ensure accurate and timely payroll processing	<ol style="list-style-type: none"> 1. Implement salary calculation algorithms. 2. Integrate with employee records. 3. Generate monthly payroll. 4. Distribute salary slips
Applicant Tracking	119	As an HR manager, I want to monitor the status of each applicant so that I can ensure timely communication and decision-making during the recruitment process	<ol style="list-style-type: none"> 1. Develop applicant tracking functionalities. 2. Update and store applicant status. 3. Generate recruitment progress reports

Epic - Harvest and Field Management

IT22635266 - S.JANUKSHAN

Feature	User Story ID	User Story	Task
Field Management	201	As a Field Manager, I want to manage tea fields so that I can ensure proper maintenance and resource allocation.	<ol style="list-style-type: none">1. Create a field in the management page.2. Update field data in the database.
Assigning Labour	202	As a Field Manager, I want to assign labor to each field so that I can ensure efficient labour allocation.	<ol style="list-style-type: none">1. Create a labor assignment interface.2. Assign labor to specific fields.3. Store assignments in the database
Fertilizer Scheduling	203	As a Field Manager, I want to schedule the fertilizer routine so that I can ensure the fields get nutrients at the right times and maintain proper harvest.	<ol style="list-style-type: none">1. Create a fertilizer schedule page.2. Implement scheduling logic.3. Validate and store schedules in the database.
Daily Harvest Recording	204	As a Harvest Manager, I want to record the quantity and quality of tea leaves harvested each day so that I can maintain accurate documentation and calculate overtime allowances.	<ol style="list-style-type: none">1. Create a harvest recording form to store records.2. Calculate overtime allowances.3. Store records in the database.
Employee Performance Analysis	205	As a Harvest Manager, I want to analyze employee performance so that I can identify top performers and areas needing improvement	<ol style="list-style-type: none">1. Create an employee performance dashboard.2. Display field productivity metrics visually.3. Compare employee performance data.

Field Performance Analysis	206	As a Harvest Manager, I want to analyze field division performance so that I can compare productivity among the fields.	<ol style="list-style-type: none"> 1. Create a field performance dashboard. 2. Display field productivity metrics visually. 3. Compare performance data across different fields.
Timely Reporting	207	As a Harvest Manager, I want to generate timely reports on field and harvest data so that I can provide insights to management for strategic decision-making.	<ol style="list-style-type: none"> 1. Generate reports based on selected criteria. 2. Export reports in various formats.
Update Inventory	208	As a Harvest Manager, I want to update inventory levels based on daily harvest records so that accurate stock records can be maintained.	<ol style="list-style-type: none"> 1. Create an inventory update feature. 2. Link daily harvest records to inventory. 3. Automatically update inventory levels.
Harvest Notifications	209	As a Field Manager, I want to receive notifications if there are any problems related to the harvest so that I can take necessary actions.	<ol style="list-style-type: none"> 1. Implement a notification system. 2. Set triggers for problem conditions. 3. Notify relevant managers
Fertilizer Management Interventions	210	As a Field Manager, I want to receive suggestions for fertilizer management interventions so that I can adjust schedules based on harvest quality	<ol style="list-style-type: none"> 1. Analyze harvest data for issues. 2. Provide suggestions for fertilizer adjustments. 3. Update fertilizer schedule if necessary

Epic - Inventory Management

IT22088550 - Piyaratne U A D T

Feature	User Story ID	User Story	Task
Track Raw Tea	301	As an inventory manager, I want to track the quantity and location of raw tea leaves so that I can manage stock levels efficiently.	<ol style="list-style-type: none">1. Develop database schema for raw tea leaves2. Implement interface for tracking raw tea quantities3. Implement location tracking for raw tea storage4. Write unit tests for raw tea tracking
Track Processed Tea	302	As an inventory manager, I want to track the quantity and location of processed tea products so that I can manage inventory accurately	<ol style="list-style-type: none">1. Develop database schema for processed tea products2. Implement interface for tracking processed tea quantities3. Implement location tracking for processed tea storage4. Write unit tests for processed tea tracking
Manage Daily Utilities	303	As an inventory manager, I want to manage daily utilities (fuel, fertilizer) so that I can keep track of consumption and stock levels.	<ol style="list-style-type: none">1. Develop database schema for daily utilities2. Implement interface for tracking utility stock levels3. Implement functionality for updating utility quantities4. Write unit tests for utility management
Provide a Search Function	304	As an inventory manager, I want to search for specific items or information within the inventory system so that I can quickly find what I need.	<ol style="list-style-type: none">1. Develop search functionality for inventory items2. Implement search filters and sorting options3. Write unit tests for search functionality

Manage Large Stocks	305	As an inventory manager, I want to manage large stocks of items (e.g., fertilizer) efficiently so that I can handle bulk inventory.	<ol style="list-style-type: none"> 1. Implement bulk inventory management features 2. Develop interface for managing large quantities of stock 3. Write unit tests for bulk stock management
Set and Manage Reorder Points	306	As an inventory manager, I want to set minimum stock levels for various items so that I can ensure timely reordering.	<ol style="list-style-type: none"> 1. Develop interface for setting reorder points 2. Implement backend logic to handle reorder levels 3. Write unit tests for reorder point functionality
Automated Reorder Management	307	As an inventory manager, I want to automatically trigger reorder alerts when stock falls below minimum levels so that I can reorder on time.	<ol style="list-style-type: none"> 1. Implement automatic reorder trigger system 2. Develop notification system for reorder alerts 3. Write unit tests for automatic reorder functionality
Generate Automated Alerts	308	As an inventory manager, I want to receive automated alerts when stock levels drop below minimum thresholds so that I can take action quickly.	<ol style="list-style-type: none"> 1. Develop alert configuration settings 2. Implement automated alert generation system 3. Write unit tests for alert notifications
Provide Graphical Representations of Inventory Trends	309	As an inventory manager, I want to view inventory data through charts and graphs to understand trends over time.	<ol style="list-style-type: none"> 1. Develop data visualization tools (charts, graphs) 2. Implement integration of visual tools with inventory data 3. Write tests for graphical representations
Generate Automated Dynamic Reports	310	As an inventory manager, I want to generate automated reports on inventory status, usage, and trends so that I can review data easily.	<ol style="list-style-type: none"> 1. Develop automated reporting system 2. Implement real-time data updates in reports 3. Write tests for report accuracy and generation

Epic - Supply Management

IT22639844 - Vivipem L B R V

Feature	User Story ID	User Story	Task
Supplier Profile Creation	411	As the Supplier Manager, I want to create supplier profiles so that I can view, update, delete, and search supplier data.	<ol style="list-style-type: none">1. Develop supplier profile creation interface.2. Implement functionality to view and search supplier profiles.3. Add update and delete capabilities.
Supplier Data Search	412	As the Supplier Manager, I want to search supplier data easily so that I can quickly find specific supplier information.	<ol style="list-style-type: none">1. Create a search functionality within the supplier management system.2. Optimize search for fast results.3. Implement filters for more precise searches.
Supplier Data Update	413	As the Supplier Manager, I want to update supplier profiles regularly so that the data remains accurate and up-to-date	<ol style="list-style-type: none">1. Develop an update functionality for supplier profiles.2. Ensure that updates are logged for auditing.3. Validate data before updates are saved.
Supplier Data Deletion	414	As the Supplier Manager, I want to delete outdated or incorrect supplier data to maintain a clean and relevant supplier database.	<ol style="list-style-type: none">1. Implement delete functionality with confirmation steps.2. Develop a system to archive deleted data.3. Add permissions to restrict who can delete data.
Supply Request Viewing	415	As the Supplier Manager, I want to	<ol style="list-style-type: none">1. Create supply request viewing interface.

		view supply requests so that I can manage the inventory and schedule supplies	<ol style="list-style-type: none"> 2. Implement logic to prioritize requests based on urgency. 3. Integrate with inventory management
Automated Supply Scheduling	416	As the Supplier Manager, I want to automate supply scheduling based on inventory levels so that supplies are ordered just in time.	<ol style="list-style-type: none"> 1. Develop automated scheduling logic. 2. Integrate with inventory monitoring. 3. Notify relevant stakeholders of scheduled supplies.
Inventory Monitoring	417	As the Supplier Manager, I want to monitor inventory levels so that I can ensure timely restocking.	<ol style="list-style-type: none"> 1. Develop inventory monitoring system 2. Set up alerts for low inventory levels. 3. Implement logic to delay supply loads if inventory is full.
Supplier Performance Tracking	418	As the Supplier Manager, I want to track supplier performance based on delivery times and order accuracy so that I can manage supplier relationships effectively.	<ol style="list-style-type: none"> 1. Develop performance tracking metrics for suppliers. 2. Implement a dashboard for viewing supplier performance. 3. Store and analyze performance data.
Inventory Alerts	419	As the Supplier Manager, I want to receive alerts when inventory levels are low so that I can take action to restock before running out.	<ol style="list-style-type: none"> 1. Implement a real-time alert system. 2. Configure thresholds for low inventory alerts. 3. Ensure alerts are sent via multiple channels (email, SMS, etc.).

Epic-Transport Management

IT22639776 - D M S T HERATH

Feature	User Story ID	User Story	Task
Vehicle management	511	As the Transport Manager, I want to manage vehicles using the system by adding deleting and editing their details so that I can handle vehicles easily	<ol style="list-style-type: none">1. Add vehicles2. Assign Drivers3. Edit Vehicle details4. Maintain Vehicle maintenance
Route Management	512	As the route manager I need to handle all routes within the factory so that I can schedule each routine for each routes	<ol style="list-style-type: none">1. Add new Routes2. Edit routes3. Schedule Routines for each route
Distribution Management	513	As the distribution manager I need to handle all distributions so that I can update the order owners about deliveries	<ol style="list-style-type: none">1. Get the orders and assign them to each pickup2. Override the current scheduled pickups3. Keep the records of each pickups
Transport resource management	514	As the transport manager I need to handle all the resources related to transport management by connecting with inventory so that system can keep the track of the use of Fuels and oils efficiency	<ol style="list-style-type: none">1. View the requests of drivers regarding gas2. Requests the necessary resources from inventory3. Supply the resources to the requestor when received
Tracking Notiifications	515	As the distribution manager I need to notify the order owners about the status of their delivery, so that customer can get know	<ol style="list-style-type: none">1. Notify the Picking up time2. Predict the receiving time3. Notify any Delayings

		about their order status	
Vehicle Assignment	516	As a Distribution Manager, I want to assign vehicles to specific routes and orders based on their capacities and conditions so that transportation is optimized	<ol style="list-style-type: none"> 1. Develop vehicle assignment interface. 2. Implement logic for matching vehicles to orders based on capacity and condition. 3. Store assignments in the database.
Daily Route Instructions	517	As a Driver, I want to receive clear instructions and schedules for my daily routes, including details about pickup locations, delivery addresses, and any special instructions.	<ol style="list-style-type: none"> 1. Create a daily route schedule generator. 2. Include pickup and delivery details. 3. Send route schedules to drivers
Maintenance Alerts	518	As a Transport Manager, I want to receive alerts for scheduled and overdue maintenance of vehicles so that I can ensure the fleet remains operational.	<ol style="list-style-type: none"> 1. Develop a maintenance alert system. 2. Set up automated reminders for scheduled maintenance. 3. Track and store maintenance history in the database.

Epic- Sales and Order Management

IT22236500 - Randeniya A.A.S.L.B.R.P.W.R.C

Feature	User Story ID	User Story	Task
Auction Meeting	611	"As a sales manager, I want to host auction meetings with buyers so that I can deal with the prices and impress buyers to make orders."	<ol style="list-style-type: none">1. Create an auction meeting scheduling interface.2. Integrate a pricing discussion feature.3. Implement a buyer interaction module.4. Store meeting details in the database.
Order Management	612	"As a sales manager, I want to accept or decline orders after the auction to control the sales process and ensure that orders are feasible."	<ol style="list-style-type: none">1. Develop an order review interface.2. Implement accept/decline functionality.3. Validate the feasibility of orders.4. Update order status in the database.
Invoice Generation	613	"As a sales manager, I want to provide invoices as soon as I accept an order, allowing customers to confirm it."	<ol style="list-style-type: none">1. Create an invoice generation module.2. Automatically send invoices upon order acceptance.3. Allow customers to confirm orders through the invoice.4. Store invoice data in the database.
Pickup Assignment	614	"As a sales manager, I want to assign pickups for accepted orders so that the delivery process is well-mannered."	<ol style="list-style-type: none">1. Design a pickup assignment interface.2. Link pickup schedules to orders.3. Notify relevant teams about pickup schedules.4. Track and update delivery status.

Inventory Update	615	"As a sales manager, I want to update the inventory regarding orders so that all the details of the orders are automatically updated."	<ol style="list-style-type: none"> 1. Develop an automated inventory update system. 2. Ensure real-time synchronization with order details. 3. Validate inventory levels. 4. Generate reports on inventory changes.
Analyze Sales Performance	616	"As a sales manager, I want to analyze sales performance metrics so that I can improve our sales strategy."	<ol style="list-style-type: none"> 1. Develop a sales performance dashboard. 2. Integrate key metrics such as conversion rates and revenue. 3. Allow filtering by time periods and products. 4. Provide actionable insights based on data analysis.
Manage Sales Orders	617	"As a sales manager, I want to review and manage all sales orders to ensure smooth processing and fulfillment."	<ol style="list-style-type: none"> 1. Create a sales order management interface. 2. Implement order tracking and status updates. 3. Validate and approve orders before processing. 4. Coordinate with logistics for order fulfillment.
Sales Visualization	618	"As a sales manager, I want to visualize sales separately in graphs to analyze sales items, their respective price, and customer details."	<ol style="list-style-type: none"> 1. Create a sales visualization dashboard. 2. Develop graphing tools for analyzing sales data. 3. Include filtering options for items, prices, and customer details. 4. Allow export of visualized data.

Epic-Product Management

IT22175366 - Mihisarani A K S

Feature	User Stories ID	User Story	Tasks
Product Listing	701	As a Product Manager, I want to list products for auction so that buyers can participate in the auction.	<ol style="list-style-type: none">1. Create a form to enter product details.2. Implement the product listing functionality in the backend.3. Display listed products on the buyer's interface.
Update/Delete Listing	702	As a Product Manager, I want to update or delete product listings so that the information remains accurate.	<ol style="list-style-type: none">1. Add update and delete buttons next to each product listing.2. Implement functionality to update or delete products in the backend.3. Ensure changes are reflected immediately in the buyer's interface.
Order Tracking	703	As a Product Manager, I want to create tracking order details so that buyers can track their orders.	<ol style="list-style-type: none">1. Design a tracking system interface for the buyer.2. Integrate tracking functionality with the backend.3. Display tracking updates on the buyer's interface.
Send Quotations	704	As a product Manager, I want to send quotations to selected buyers so that they can confirm their purchase.	<ol style="list-style-type: none">1. Create a template for quotations.2. Integrate quotation generation with the order management system.3. Implement functionality to send quotations via email or system notifications to buyers.

Buyer Registration	705	As a Buyer, I want to register for the system so that I can join the auction & access its features.	<ol style="list-style-type: none"> 1. Design a registration form. 2. Implement the registration process in the backend. 3. Create a confirmation page after successful registration.
View/Search Products	706	As a Buyer, I want to view and search product details so that I can find what I need.	<ol style="list-style-type: none"> 1. Develop a search bar and filtering options for product listings. 2. Implement search functionality in the backend.
Participate in Auctions	707	As a Buyer, I want to participate in auctions so that I can bid on products.	<ol style="list-style-type: none"> 1. Create an auction interface for buyers. 2. Implement live bidding functionality. 3. Display current bids and allow buyers to place new bids.
Accept Quotations	708	As a Buyer, I want to accept quotations so that I can confirm my purchase.	<ol style="list-style-type: none"> 1. Develop an interface for buyers to review and accept quotations. 2. Implement functionality to confirm purchase upon acceptance of a quotation. 3. Send confirmation to the order management system.
Order Tracking (Buyer)	709	As a Buyer, I want to track my orders so that I can stay informed about their status.	<ol style="list-style-type: none"> 1. Integrate order tracking with the buyer's interface. 2. Display real-time tracking updates to the buyer. 3. Ensure tracking details are easily accessible from the buyer's dashboard.
Order History	710	As a Buyer, I want to see my order history so that I can review past purchases.	<ol style="list-style-type: none"> 1. Implement an order history section in the buyer's dashboard. 2. Ensure past orders are organized by date. 3. Provide detailed information for each past purchase.

Epic-Maintenance and Repairs Management

IT22633422 - Asath M M

Feature	User Story ID	User Story	Tasks
Repair Requests	812	"As a Technician, I want to view and assign repair requests so that I can manage my tasks effectively."	<ol style="list-style-type: none">1. Create a repair request page.2. Implement assignment functionality.3. Validate request data.4. Store data in the database.
Maintenance Scheduling	813	"As a Maintenance Manager, I want to schedule routine maintenance tasks so that they are performed regularly."	<ol style="list-style-type: none">1. Create a scheduling interface.2. Implement scheduling logic.3. Send notifications for scheduled tasks.4. Store schedules in the database.
Maintenance Notifications	814	"As a Technician, I want to receive notifications for reported issues and scheduled tasks to stay informed."	<ol style="list-style-type: none">1. Implement notification system.2. Integrate with issue reporting.3. Schedule notifications.4. Store notifications in the database.
Maintenance Schedules View	815	"As a Maintenance Manager, I want to view upcoming maintenance schedules to plan my work accordingly."	<ol style="list-style-type: none">1. Create a schedule viewing page.2. Implement filtering options.3. Display next maintenance times.4. Store schedule views.

Task Priority Management	816	"As a Maintenance Manager, I want to set priority levels for tasks to manage them based on urgency."	<ol style="list-style-type: none"> 1. Create priority setting features. 2. Implement priority logic. 3. Validate priority levels. 4. Store priorities in the database.
Maintenance and Repair Logging	817	"As a Technician, I want to log and update the status of maintenance and repair tasks to track progress."	<ol style="list-style-type: none"> 1. Create a logging interface. 2. Implement status update functionality. 3. Validate logs. 4. Store logs in the database.
Maintenance Task Search	818	"As a Maintenance Manager, I want to search tasks by machine, vehicle, or time period to find specific tasks."	<ol style="list-style-type: none"> 1. Create search functionality. 2. Implement filtering options. 3. Validate search queries. 4. Store search results in the database.
Machine and Vehicle Records Management	819	"As a Maintenance Manager, I want to store and update machine and vehicle records to keep them accurate."	<ol style="list-style-type: none"> 1. Create records management page. 2. Implement data update functionality. 3. Validate records. 4. Store records in the database.
Repair Request Status Updates	820	"As a Technician, I want to update the status of repairs (in progress, completed) to keep the team informed."	<ol style="list-style-type: none"> 1. Create status update interface. 2. Implement status tracking functionality. 3. Validate status updates. 4. Store status changes in the database.

Maintenance Reports	821	"As a Maintenance Manager, I want to generate and view maintenance reports to analyze the performance of tasks."	<ol style="list-style-type: none">1. Create a report generation feature.2. Implement data aggregation logic.3. Design report templates.4. Store and display generated reports.
Raise Issue	822	"As a Driver / machine supervisor, I want to raise issues, view, and delete issues to keep the vehicle state updated."	<ol style="list-style-type: none">1. Create a raise issue interface2. Implement notification logics.3. Store the data.

Product Backlog

Priority Scale

1 - Highest Priority

2 - Normal Priority

3 - Less Priority

Order ID	User Story ID	User Stories	Estimated Hours	Priority	Status
11	111	As an HR manager, I want to create and maintain detailed employee records so that I can keep track of employee information.	7	1	On Going
12	114	As a manager, I want to approve or reject leave requests so that I can manage team availability effectively.	8	2	To be Started
13	118	As an HR manager, I want to calculate monthly salaries and allowances based on employee designation and performance so that I can ensure accurate and timely payroll processing	7	3	To be Started
14	117	As an HR manager, I want to create and manage job postings so that I can attract qualified candidates for open positions.	7	3	To be Started
15	202	As a Field Manager, I want to assign labor to each field so that I can ensure efficient labour allocation.	8	2	To be Started
16	204	As a Harvest Manager, I want to record the quantity and quality of tea leaves harvested each day so that I can maintain accurate documentation and calculate overtime allowances.	9	1	On Going
17	208	As a Harvest Manager, I want to update inventory levels based on daily harvest records so that accurate stock records can be maintained.	8	1	To be Started

18	416	As the Supplier Manager, I want to automate supply scheduling based on inventory levels so that supplies are ordered just in time.	7	3	To be Started
19	417	As the Supplier Manager, I want to monitor inventory levels so that I can ensure timely restocking.	7	2	To be Started
20	419	As the Supplier Manager, I want to receive alerts when inventory levels are low so that I can take action to restock before running out.	8	2	To be Started
21	611	As a sales manager, I want to host auction meetings with buyers so that I can deal with the prices and impress buyers to make orders.	9	1	To be Started
22	612	As a sales manager, I want to accept or decline orders after the auction to control the sales process and ensure that orders are feasible.	7	2	To be Started
23	614	As a sales manager, I want to assign pickups for accepted orders so that the delivery process is well-mannered.	8	3	To be Started
24	701	As a Product Manager, I want to list products for auction so that buyers can participate in the auction.	5	1	To be Started
25	706	As a Buyer, I want to view and search product details so that I can find what I need.	8	3	To be Started
26	707	As a Buyer, I want to participate in auctions so that I can bid on products.	7	2	To be Started
27	511	As the Transport Manager, I want to manage vehicles using the system by adding deleting and editing their details so that I can handle vehicles easily	8	1	On Going
28	513	As the distribution manager I need to handle all distributions so that I can update the order owners about deliveries	9	2	To be started

29	812	As a Technician, I want to view and assign repair requests so that I can manage my tasks effectively.	8	1	To be Started
30	813	As a Maintenance Manager, I want to schedule routine maintenance tasks so that they are performed regularly.	7	3	To be Started
31	817	As a Technician, I want to log and update the status of maintenance and repair tasks to track progress.	9	3	To be Started
32	301	As an inventory manager, I want to track the quantity and location of raw tea leaves so that I can manage stock levels efficiently.	9	1	Ongoing
33	305	As an inventory manager, I want to manage large stocks of items (e.g., fertilizer) efficiently so that I can handle bulk inventory.	8	2	To be started
34	306	As an inventory manager, I want to set minimum stock levels for various items so that I can ensure timely reordering and I want to automatically trigger reorder alerts when stock falls below minimum levels	9	1	To be started
35	303	As an inventory manager, I want to manage daily utilities (fuel, fertilizer) so that I can keep track of consumption and stock levels.	7	3	To be started

1st Sprint

Priority	Backlog item	Task	User story ID	Estimated hours	Owner
1	Employee Management	<ol style="list-style-type: none"> 1. Create a database schema for employee records. 2. Develop forms for data entry and updates. 3. Store records in the database 	111	6	IT22001252
2	Attendance and Leave Management	<ol style="list-style-type: none"> 1. Develop an interface for managers to review leave requests. 2. Implement approval/rejection logic. 3. Update leave status in the system. 	114	7	IT22001252
2	Assign Labours	<ol style="list-style-type: none"> 1. Create a labor assignment interface. 2. Assign labor to specific fields. 3. Store details in the database. 	202	8	IT22635266
1	Record Daily Harvest	<ol style="list-style-type: none"> 1. Create interface to record harvest. 2. Calculate overtime allowances. 3. Store records in the database. 	204	7	IT22635266
3	Supplier Profile Creation	<ol style="list-style-type: none"> 1. Develop supplier profile creation interface. 2. Implement functionality to view and search supplier profiles. 3. Add update and delete capabilities. 	411	7	IT22639844

2	Inventory Monitoring	<ol style="list-style-type: none"> 1. Develop inventory monitoring system. 2. Set up alerts for low inventory levels. 3. Implement logic to delay supply loads if inventory is full. 	417	7	IT22639844
3	Host Auction Meetings	<ol style="list-style-type: none"> 1. Design the UI for hosting auction meetings 2. Implement backend functionality for creating, scheduling, and managing auction meetings. 3. Integrate real-time communication tools 	611	7	IT22236500
2	Accepting or Declining Orders	<ol style="list-style-type: none"> 1. Design the UI for reviewing and managing orders after an auction 2. Create notifications or alerts for buyers when their orders are accepted or declined 3. Test the acceptance and declination process with different order scenarios 	612	7	IT22236500
2	List Products for Sale	<ol style="list-style-type: none"> 1. Create a form to enter product details. 2. Implement the product listing functionality in the backend. 3. Display listed products on the buyer's interface. 	701	7	IT22175366
2	Auction Management	<ol style="list-style-type: none"> 1. Create an auction interface for buyers. 2. Implement live bidding functionality. 3. Display current bids and allow buyers to place new bids. 	707	7	IT22175366

1	Log machineries & vehicles	<ol style="list-style-type: none"> 1. Create a logging interface 2. Implement logging functionality 3. Store logs in the database 4. Provide a search and filter feature 	812	9	IT22633422
3	Maintenance Scheduling	<ol style="list-style-type: none"> 1. Create a scheduling interface. 2. Implement scheduling logic. 3. Send notifications for scheduled tasks. 4. Store schedules in the database. 	813	8	IT22633422
2	Maintenance and Repair Logging	<ol style="list-style-type: none"> 1. Create logging interface. 2. Implement status update functionality. 3. Validate logs. 4. Store logs in the database. 	817	8	IT22633422
1	Vehicle management	<ol style="list-style-type: none"> 1. Add vehicles 2. Assign Drivers 3. Edit Vehicle details 4. Maintain Vehicle maintenance 	511	8	IT22639776
1	Stock Reorder Management	<ol style="list-style-type: none"> 1. Develop interface for setting reorder points 2. Implement backend logic to handle reorder levels 3. Implement automatic reorder trigger system 4. Develop notification system for reorder alerts 	311	8	IT22088550
1	Stock Management	<ol style="list-style-type: none"> 1. Develop database schema for raw and processed tea leaves 2. Implement interface for tracking tea quantities 3. Implement location tracking for tea storage 4. Write unit tests for tea tracking 	301	8	IT22088550

2nd Sprint

Priority	Backlog item	Task	User story ID	Estimated hours	Owner
3	Salary Calculation	<ol style="list-style-type: none">1. Implement salary calculation algorithms.2. Integrate with employee records.3. Generate monthly payroll.4. Distribute salary slips	118	7	IT22001252
3	Job Posting Management	<ol style="list-style-type: none">1. Design job posting templates.2. Implement a posting management interface.3. Validate job details.4. Publish and manage job postings.	117	7	IT22001252
3	Update Inventory	<ol style="list-style-type: none">1. Create an inventory update feature.2. Link daily harvest records to inventory.3. Automatically update inventory levels.	208	6	IT22635266
2	Automated Supply Scheduling	<ol style="list-style-type: none">1. Develop automated scheduling logic.2. Integrate with inventory monitoring.3. Notify relevant stakeholders of scheduled supplies.	415	8	IT22639844
2	Supply Request Viewing	<ol style="list-style-type: none">1. Create supply request viewing interface.2. Implement logic to prioritize requests based on urgency.3. Integrate with inventory management.	416	7	IT22639844

2	Providing Invoices	<ol style="list-style-type: none"> 1. Design the invoice template 2. Implement the backend functionality to generate invoices automatically upon order acceptance. 3. Create a feature to send the invoice to the customer via email or within the app. 	613	8	IT22236500
1	Assigning Pickups	<ol style="list-style-type: none"> 1. Design the UI for assigning pickups. 2. Implement backend functionality to manage pickup assignments and logistics coordination. 3. Test the pickup assignment process with sample orders and delivery partners. 	614	9	IT22236500
2	Raise machine / Vehicle issues	<ol style="list-style-type: none"> 1. Create an issue reporting interface 2. Implement issue tracking functionality 3. Set up notifications for reported issues 4. Store issue reports in the database 5. Integrate issue resolution tracking 	822	8	IT22633422
1	Handle Repair Requests	<ol style="list-style-type: none"> 1. Create a repair request page. 2. Implement assignment functionality. 3. Validate request data. 4. Store data in the database. 	812	5	IT22633422

2	Assign technicians	<ol style="list-style-type: none"> 1. Create an assigning interface. 2. Implement assign, status update functionalities. 3. Validate logs. 4. Store logs in the database. 	817	9	IT22633422
3	Distribution Management	<ol style="list-style-type: none"> 1. Add new Routes 2. Edit routes 3. Schedule Routines for each route 	513	8	IT22639776
2	Vehicle Assignment	<ol style="list-style-type: none"> 1. Develop vehicle assignment interface. 2. Implement logic for matching vehicles to orders based on capacity and condition. 3. Store assignments in the database 	516	7	IT22639776
2	Order Tracking	<ol style="list-style-type: none"> 1. Design a tracking system interface for the buyer. 2. Integrate tracking functionality with the backend. 3. Display tracking updates on the buyer's interface. 	703	8	IT22175366
1	Send Quotations	<ol style="list-style-type: none"> 1. Create a template for quotations. 2. Integrate quotation generation with the order management system. 3. Implement functionality to send quotations via email or system notifications to buyers. 	704	7	IT22175366
3	Utility Management	<ol style="list-style-type: none"> 1. Develop database schema for daily utilities 	303	7	IT22088550

		<ol style="list-style-type: none"> 2. Implement interface for tracking utility stock levels 3. Implement functionality for updating utility quantities 4. Write unit tests for utility management 			
2	Large stock management	<ol style="list-style-type: none"> 1. Implement bulk inventory management features 2. Develop interface for managing large quantities of stock 3. Write unit tests for bulk stock management 	305	8	IT22088550

Kanban Board

