

IT2080 – IT Project (ITP)
Year 2, Semester II, 2025
Activity 1



**Smart Production & Management System for
Planet's Pick Holdings (Pvt) Ltd**

Group Details

Batch: 2

ITP Group Number: ITP25_B2_26

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Introduction

Planet's Pick is a Sri Lankan company that produces and exports a wide range of organic products such as virgin coconut oil, coconut milk, jackfruit-based food items, dehydrated fruits, and spice pastes. Currently, most of their daily business operations are managed manually. This includes how they track the raw materials they receive (like coconuts and jackfruits), monitor how much they produce, and manage which employees are responsible for tasks such as production, packaging, and delivery.

Doing all these activities by hand takes a lot of time and is prone to errors. For example, it becomes hard to tell how many raw materials are left, how much was used in a batch, or whether deliveries are on time. If a batch of products goes bad or doesn't meet quality standards, tracking the root cause becomes difficult. It also becomes hard to manage costs and make predictions about how much to produce or what supplies will be needed next week.

This leads to serious problems such as:

- Delayed sales
- Wasted materials
- Confused employees
- Lost profits

By using an IT-based solution, a smart production and management system, Planet's Pick can automate these processes, reduce errors, and improve speed and accuracy. With this system, they can keep track of their Enterprise resources, employees, product batches, and sales all in one place. It will also help them save money, avoid wastage, and make better business decisions in the future.

User Roles and Their Benefits

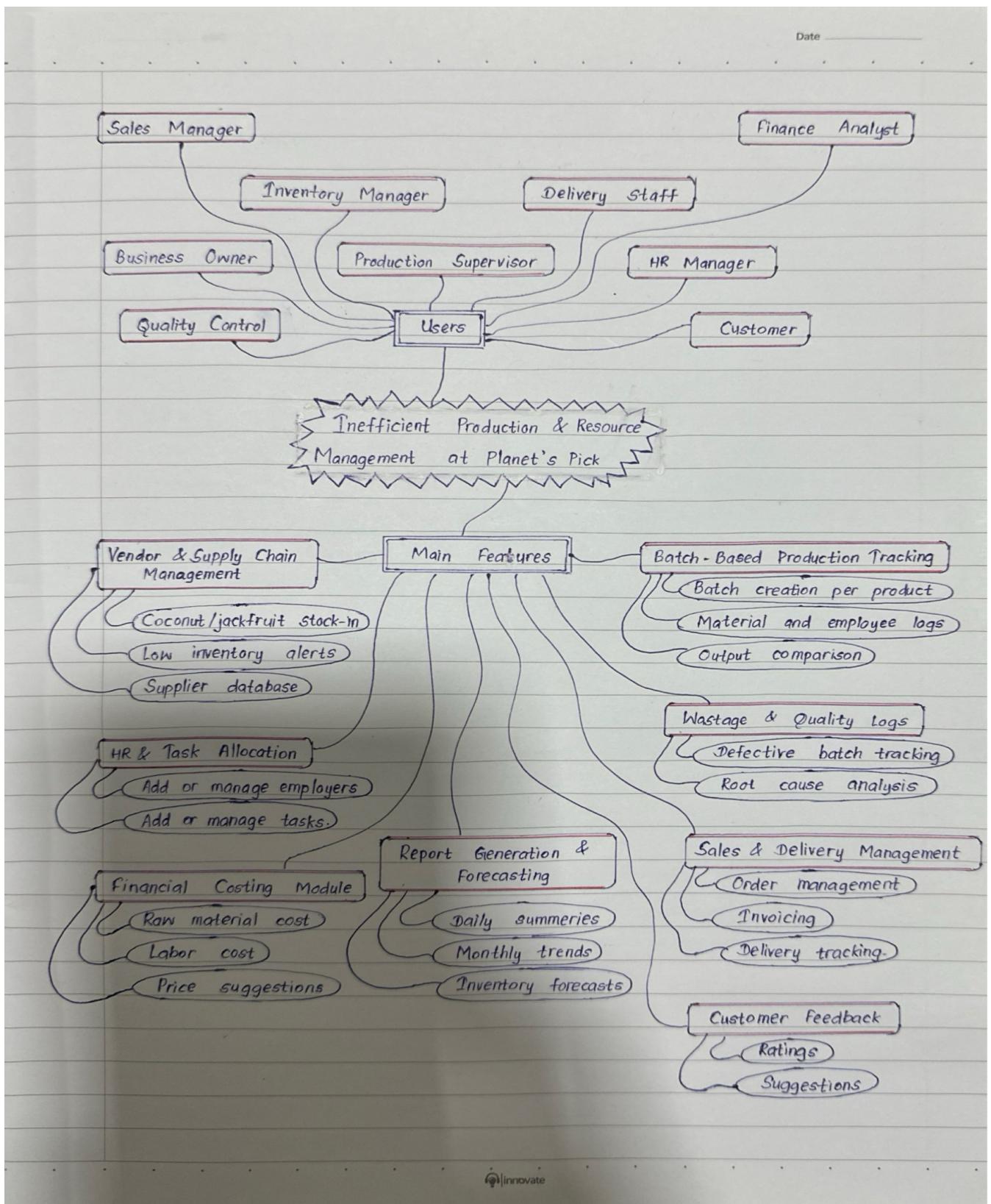
User	Benefits from the System
Business Owner	Gains access to real-time reports and data to support strategic, data-driven decisions. Provides an overall picture of business performance and operational efficiency.
Inventory Manager	Can monitor real-time stock levels, receive low-stock alerts, and manage supplier records with ease, eliminating the need for manual tracking.
Production Supervisor	Receives clear task assignments and can log daily production activities, helping ensure accountability and streamline operations.
Sales Manager	Can maintain well-organized sales records, monitor customer interactions, and analyze trends to enhance satisfaction and revenue.
Delivery Staff	Has quick access to delivery schedules and can update or check delivery statuses easily, ensuring timely and efficient deliveries.
Finance Analyst	Uses the system to conduct in-depth analyses on Cost of Raw materials, labour cost, price suggestions, sales performance, and demand forecasting using accurate, centralized data
HR Manager	Uses the system to add/remove employees according to the performance analysis and allocate tasks to them.
Quality Control	Uses the system to log product quality and wastage and analyse the product quality via Defective Batch Tracking and Root Cause Analysis.

Customer	Provide ratings, suggestions and feedback for improvement on product and delivery.
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Overall Benefits of the System

- Significantly reduces wastage of raw materials and finished goods.
- Streamlines and automates production, inventory, and sales tracking.
- Improves delivery timelines and logistics coordination.
- Centralizes business data into a single, accessible platform for better decision-making.

Mind Map



User Requirements

ID	Requirement
UR01	The system should allow users to add, edit and manage details of vendors who supply materials.
UR02	The system should be able to keep track of raw materials and finished goods in real time.
UR03	User should be able to assign employees to specific tasks and track their attendance and daily work.
UR04	The system should record production batch details.
UR05	The system should calculate how much each unit costs to make.
UR06	System should suggest selling price to meet target margins based on the cost of making the product.
UR07	The system should help manage pre-orders and open sales and create invoices for customers
UR08	Users should be able to update the status of deliveries and assign delivery tasks to staff
UR09	System should log wastage by batch with root cause analysis.
UR10	Customer should be able to give feedback post-delivery.
UR11	System should generate daily and weekly financial and inventory reports.
UR12	System should help predict how much to produce the next day and what supplies need to be ordered again

Conclusion

The implementation of **CocoChain ERP** will revolutionize the way Planet's Pick manages its daily operations. By making key processes (such as inventory control, production tracking, employee task management, sales, logistics, and reporting) digital, the company can significantly reduce resource wastage, enhance accuracy, and improve overall production efficiency. This system not only supports the business in making smarter, data-driven decisions but also strengthens its ability to scale and meet growing customer demand. With time, CocoChain ERP will enable Planet's Pick to engage in long-term operational excellence and sustainability in the global organic products market.