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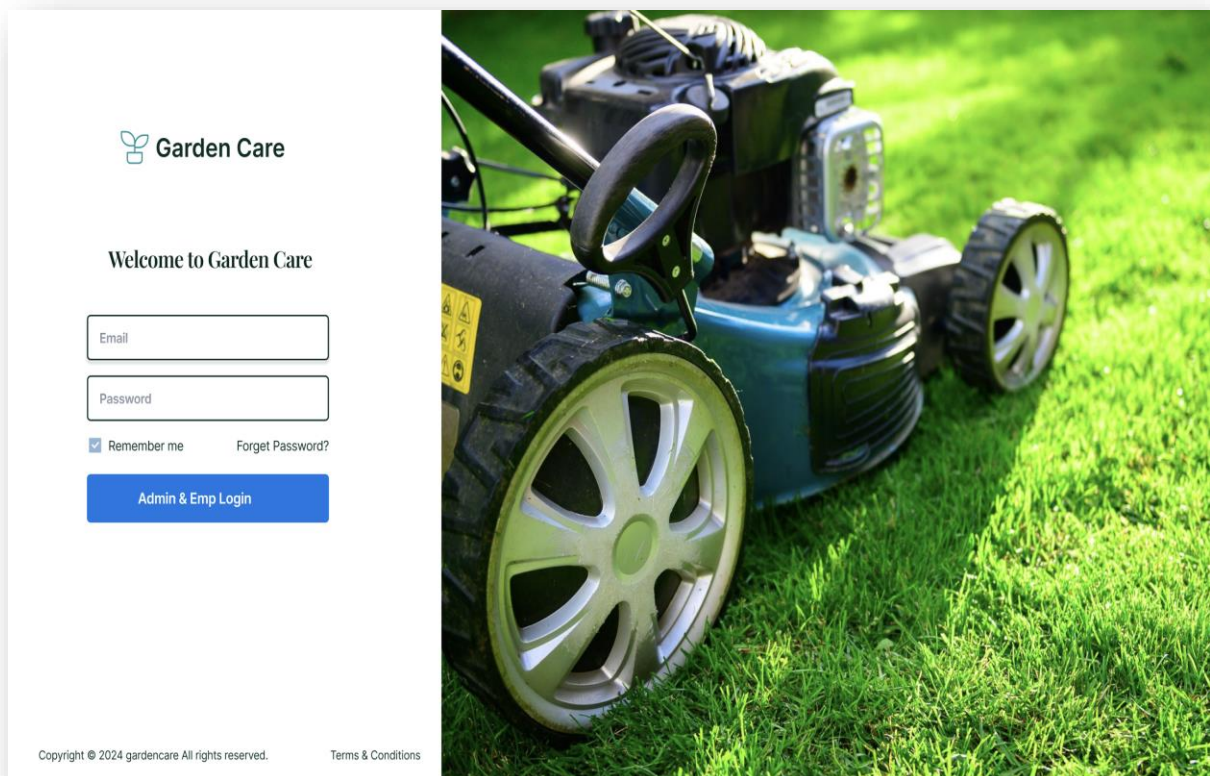
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# MBIS602 Systems Analysis and Process Modelling

## LCS Lawn Care System



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## **I. Introduction and Analysis of Scope**

Christchurch-based LCS is prepared to purchase another lawn care business, serving both commercial and residential clients. Ryan Wright, a reputable owner, is considering acquiring to grow his business and ensure a balanced work-life schedule. Ryan is exploring technologies to improve operations, handle inventory, manage accounts, taxes, payroll, and create a website to enhance LCS marketing efforts. To keep up with the company's growth, Ryan realized that the present approach of manual tracking was no longer viable. Ryan desperately needs a computer and a reliable software system to help him. The main function of the system is to improve the ability of LCS to cope with a larger volume of customers through computer assistance. After expanding the company, Ryan needs more sophisticated inventory management. An automated financial system was also needed so Ryan could better understand his income and expenses. At the same time, Ryan needs to be prepared for potential new business and competitors. Implementing systems such as GPS for route scheduling, CRM for customer management, and Inventory Management can enhance efficiency, reduce costs, and improve customer relationships for the Lawn Care Specialist (LCS). Furthermore, utilizing financial systems, developing a website, and using organic goods may help LCS boost profitability and sustainability by managing fleet expenses, automating invoicing, expanding its customer base, and attracting environmentally aware customers. The LCS project has challenges in terms of time, finance, and technical skills. Tight timelines owing to acquisition pressure, limited resources, and escalating costs necessitate effective management. To be successful, the system must be simple, user-friendly, and operate seamlessly.

### **Requirements Details**

The functional requirements are grouped according to their priority status, category, and implementation in two phases (Phase I and II) based on justification and prioritization. Look at Table 1 for general functional requirements.

**Table 1: Details of Functional Requirements**

<b>Requirement</b>	<b>Priority Status</b>	<b>Priority Category</b>	<b>Implementation Phase</b>	<b>Description</b>
<b>Route Scheduling</b>	High	Essential to Business	Phase I	A mandatory feature to optimize daily route scheduling for Ryan and his employees through GPS integration, real-time updates, and job assignments. Enhances operational efficiency.
<b>Customer Management</b>	High	Essential to Business	Phase I	organizing data and improving communication, integrating CRM for upselling opportunities and personalized service.
<b>Financial Management</b>	High	Essential to Business	Phase I	It is mandatory to have a system that automates accounting functions such as invoicing, payment tracking, payroll, and financial reporting, enhancing efficiency by integrating with customer management and managing new employee payroll.
<b>Inventory Management</b>	High	Essential to Business	Phase I	A mandatory features to develop an inventory management system to track tools, supplies, and chemicals,

				integrate with route scheduling, and implement fleet management to manage business expansion demands efficiently.
<b>Marketing and Online Presence</b>	Medium	Good to Have	Phase I	Creating a website for LCS services with local SEO to attract customers in Ryan's area, enabling quote requests and future online booking features for growth and expansion.
<b>Forecasting and Planning</b>	Low	Value - Added	Phase II	It is useful after the business is operational. Research organic products, pilot with customers, develop a marketing plan and aim for long-term growth while maintaining core operations.
<b>Adoption of Organic Products</b>	Low	Value-Added	Phase II	This is low in priority because it is optional. It is a future opportunity rather than an immediate necessity. This can be considered once the core business operations are stable, and the initial expansion is well managed.

## II. Project Schedule

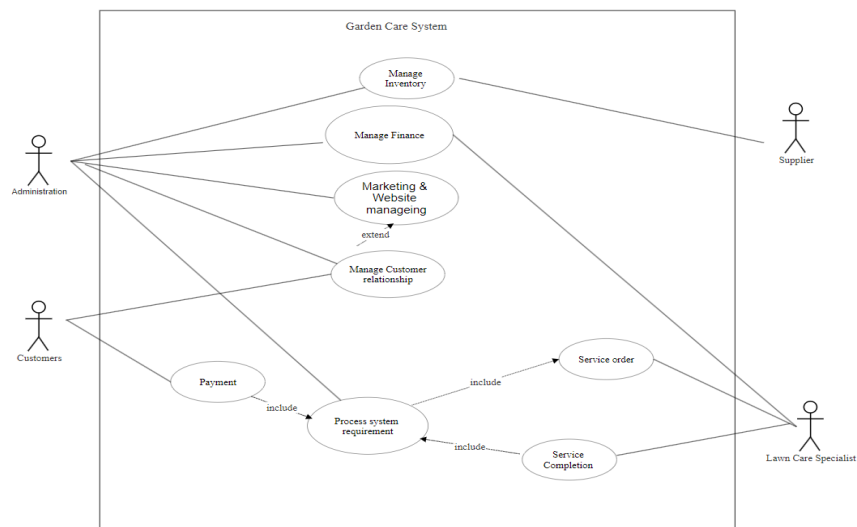
The project plan is to implement the functional requirements in two phases over a tenure of seven months as illustrated in Table 2 below. Phase 1 implementation by the LCS development team; it will GO LIVE on 1<sup>st</sup> April 2025 and the Phase 2 implementation for the Website requirement will GO live on 1<sup>st</sup> May 2025.

The detailed project plan with Gantt charts of all phases including hiring teams have been mentioned in Annexure II below.

	1-Oct-24	1-Nov-24	1-Dec-24	1-Jan-25	1-Feb-25	1-Mar-25	1-Apr-25
<b>Resources</b>							
Project manager	Phase1, Phase2						
UI/UX Designer	Phase1		Phase2				
System Analyst	Phase1		Phase2				
Developer 1		Phase1				Phase2	
Developer 2			Phase1				Phase2
Tester					Phase1		Phase2
						★	★
	Go Live	★					
Phases	Development Module to be Delivered						
Phase1	LCS System						
Phase2	Website						

### III. Design of Logical System

## 1. Use case diagram



Use case Title: Garden Care System
Primary Actor: Customer
Level: Kite
Stakeholder: Customer, Administration, Lawn Care Specialist, Supplier.
Precondition: The customer sends a job request
Minimal Guarantee: Service requested; customer notify of the status of the service.
Success Guarantee: Service is complete, customer made the payment.
Trigger: The customer requests a service.
<p>Main Success Scenario:</p> <ol style="list-style-type: none"> <li>1. The customer requests a service from Garden Care system.</li> <li>2. The system verifies the request and send to administration.</li> <li>3. The customer provides payment details to the system.</li> <li>4. System Check with inventory and assign lawn care specialist to attend the service.</li> <li>5. The lawn care specialist completes the service and advise job done to customer.</li> <li>6. Customer makes the payment, the system close the request</li> </ol>
<p>Extension:</p> <p>1a. Customer provided incomplete or invalid details for service:</p> <ol style="list-style-type: none"> <li>1a1. The customer submits the service request, but the address or service details are incomplete or invalid.</li> <li>1a2. The system informs the customer to correct or complete the service request.</li> <li>1a3. The system cancels the service request and notifies the customer if the information is not provided within the required timeframe.</li> <li>1a4. The customer re sends the request with correct service details, the system process with the service order.</li> </ol> <p>2a. Inventory shortage:</p> <ol style="list-style-type: none"> <li>2a1. The system checks inventory for the required service, find shortage of inventory</li> </ol>

shortage.

2a2. The system notified the shortage and sent a order to the supplier automatically.

2a3. The customer is notified of the inventory shortage and delay in service.

2a4. The administration updates the system when the inventory is restocked, and the system reactivates the service.

2a5. The system notifies customers with a new service schedule, and the service is undergoing.

3a. Lawn care specialist is unavailable:

3a1. No lawn care specialist is available for the requested time.

3a2. The system marks the service to the administration to assign the service when specialist is available.

3a3. The system checks lawn care specialist schedule, offer a new time.

3a4. The customer chooses a new time, the system updates the administration and notifies the lawn care specialist.

4a. The customer fails to make payment:

4a1. After service is completed, the customer does not pay on the agreed date.

4a2. The system sends a reminder to the customer via text or email.

4a3. The customer failed to make the payment after serval reminder sent, and the system sent the information to administration for follow up.

4a4. The customer is marked by system for “No Service” until payment is made.

4a5. The customer makes the payment, system unmark and update the administration for future service.

5a. The customer cancels the service:

5a1. The customer wishes to cancel the service after the request is sent.

5a2. The customer informs the system to cancel the service.

5a3. The system sends notify the lawn care specialist and administration of the cancellation.

5a4. If the cancellation after the lawn care specialist starts the service, the system marks the service as cancelled and charges a cancellation fee.



6a. Supplier fails to deliver inventory:

6a1. The supplier fails to deliver inventory on time and causes service delay.

6a2. The system tracks supplier delivery status and pause the service.

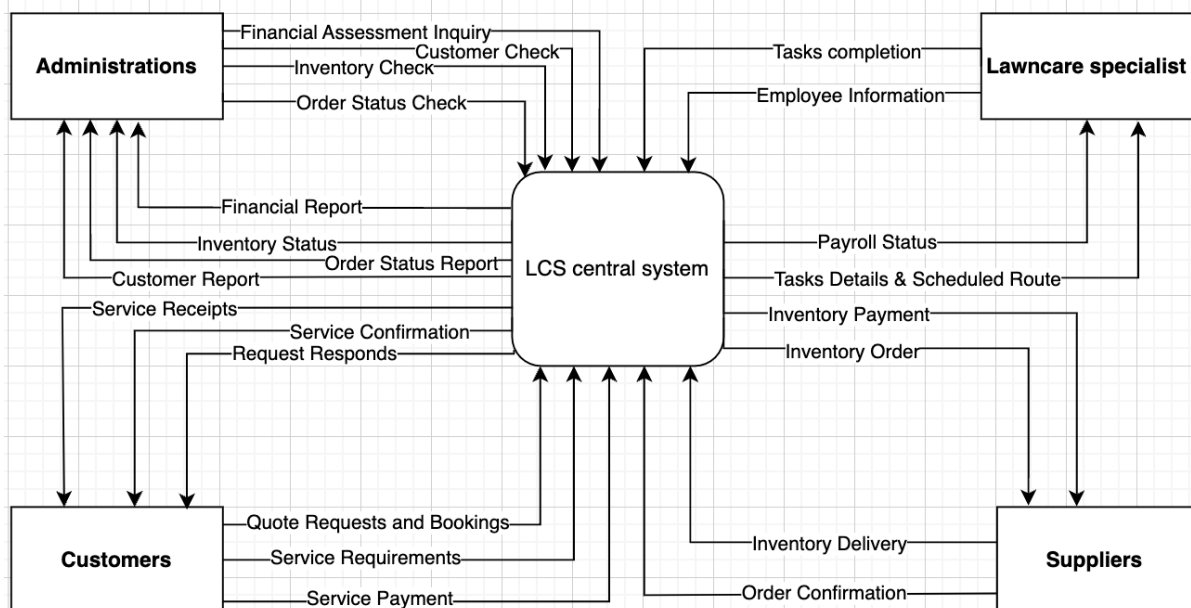
6a3. The system notifies administration to check with suppliers for update on delivery.

6a4. If the supplier is updated with delivery date, administration notify the customer of service delay.

## 2. Context Diagram

The context diagram is depicted in Figure 1 of this document which outlines the overview of the organization system as showing entities, how they interact with the system and the information flows. The Lawn Care Specialist (LCS) has one main data process which is the LCS central system and four major entities like Administrations, Lawncare specialists, Suppliers, and customers and their interdependency data flows.

**Figure 1 - Context Diagram**



### 1. Administrations:

- Four data flow input interfaces with the LCS central system: **Customer Check, Inventory Check, Order Status Check, and Financial Assessment Inquiry**
- Four data flow output interfaces with the LCS central system: **Financial Report Inventory Status, Order Status Report, and Customer Information.**

## **2. Lawncare Specialist:**

- Two data flow input interfaces with the LCS central system: **Employee Information and Tasks Completion.**
- Two data flow output interfaces with LCS central system: **Tasks Detail & Scheduled Route and Payroll Status.**

## **3. Suppliers:**

- Two data flow input interfaces with the LCS central system: **Inventory Delivery and Order Confirmation.**
- Two data flow output interfaces with the LCS central system: **Inventory Order and Inventory Payment.**

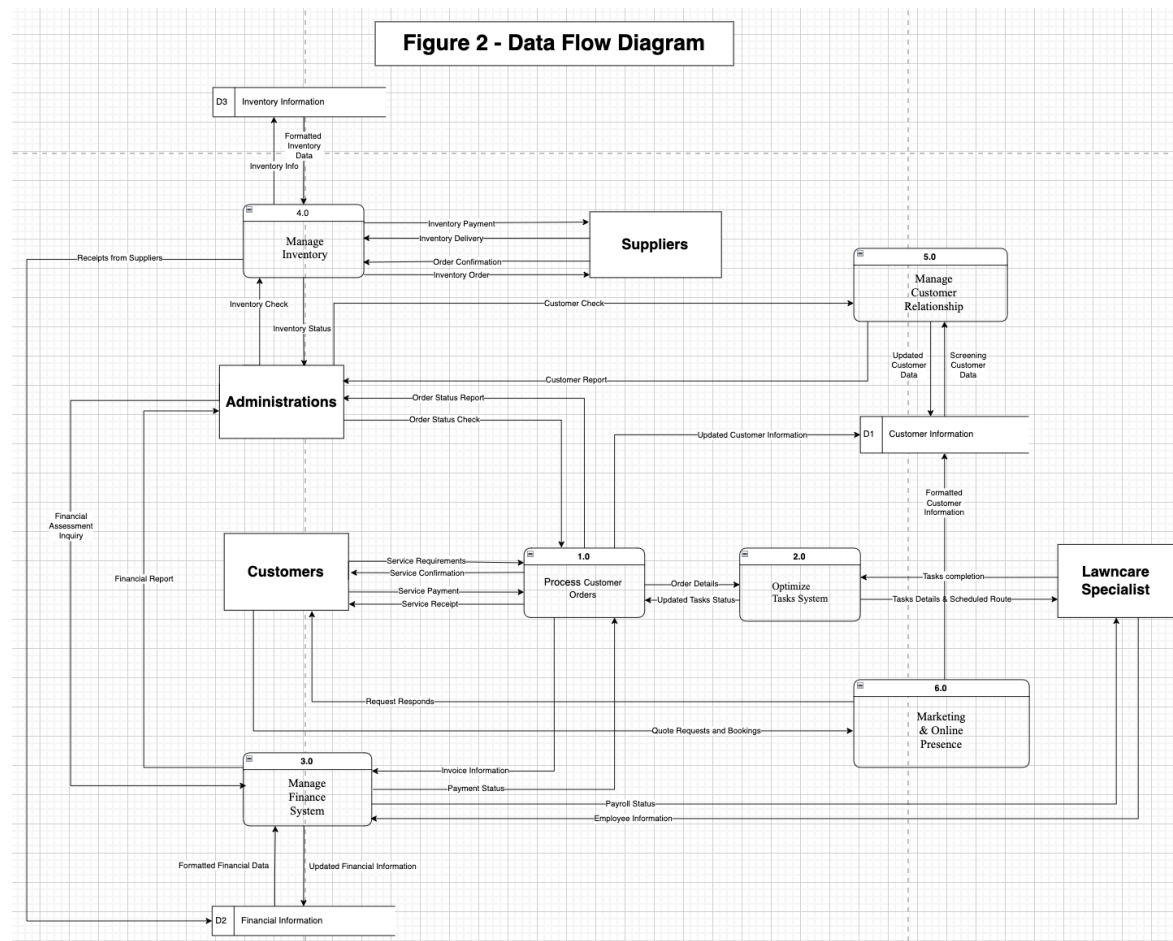
## **4. Customers:**

- Three data flow input interfaces with the LCS central system: **Quote Requests and Bookings, Service Requirements, and Service Payment.**
- Three data flow output interfaces with the LCS central system: **Services Receipts, Service Confirmation, and Request Responds.**

## **3. Level 0 Data Flow Diagram (DFD)**

The level 0 Data Flow Diagram depicted in Figure 2 of this document defines the relationship between all identified sources/sinks. The diagram also shows the dataflow between entities and six (6) identified data processes and three (3) data stores. The key processes in the system include managing inventory, handling customer relationships, optimizing task systems, managing the financial system, and processing customer orders. Each process interacts with both external entities (such as suppliers, customers, and lawncare specialists) and internal data

stores (such as financial information, customer information, and inventory information).



## Entities

**1. Administration (Source/Sink):** The administration acts as a central entity interacting with different processes and managing critical data flows.

- It sends an Order Status Check to the data process (1.0 Process Customer Orders) procedure, ensuring that order statuses are monitored.
- The administration also handles Financial Assessment inquiries, which are sent to the 3.0 Manage Finance System. This query sends updated financial information to the D2 Financial Information database.
- The Customer Check data flow is directed to the (5.0 Manage Customer Relationship) data process, ensuring customer information is reviewed and updated.
- Inventory Check is sent to the (4.0 Manage Inventory) data process which then receives Formatted Inventory Data from the D3 Inventory Information store.

**2. Suppliers (Source/Sink):** Suppliers interact with the system primarily through the 4.0 Manage Inventory data process.

- Inventory Delivery data flows output interface from the suppliers to the (Manage 4.0 Inventory) data process, with Inventory Payments data flow input interface flowing back to suppliers to complete transactions.
- Suppliers also receive Inventory Orders and return Order Confirmations to the (4.0 Manage Inventory) data process.

**3. Customers (Source/Sink):** Customers play a key role in the system, initiating service requests and interacting with multiple processes.

- Service requirements are sent to the (1.0 Process Customer Orders) data process, where orders are confirmed and reported back to the customer through Service Confirmation data flow output interface to customer.
- Customers send Service Payments, which are processed, and they receive Service Receipts as confirmations.
- Quote Requests and Bookings data flow from the customers to the (6.0 Marketing & Online Presence) data process, which processes these requests and updates customer information. This data is then stored in D1 Customer Information and flows to the 5.0 Manage Customer Relationship process for further updates and screenings.

**4. Lawncare Specialist (Source/Sink)**

- Lawncare specialists provide Employee Information to the 3.0 Manage Finance System, where it is processed and linked to Updated Financial Information, ultimately stored in D2 Financial Information.
- lawncare specialists receive Task Details & Scheduled Routes from the 2.0 Optimize Task System. Upon completion, they report back through the Tasks Completion flow, updating the system on task statuses.

## **Data Processes**

### **1. 1.0 Process Customer Orders:**

- This process handles incoming orders from customers, ensuring that orders are processed and confirmed.
- This process is connected to the 2.0 Optimize Task System, where task statuses are updated and monitored.
- It also manages Service Payments from customers and sends them Service Receipts.

## **2. 2.0 Optimize Task System:**

- The task optimization system is responsible for managing and updating the status of tasks assigned to lawncare specialists.
- It sends Task Details & Scheduled Routes to lawncare specialists and receives Task Completion updates to maintain task progress.

## **3. 3.0 Manage Finance System:**

- This process handles all financial aspects of the system, including managing employee payroll, customer payments, and supplier transactions.
- Financial data is updated in the D2 Financial Information store, ensuring that accurate and up-to-date information is available for other processes.

## **4. 4.0 Manage Inventory:**

- The inventory management process ensures that inventory levels are maintained and managed efficiently.
- It processes deliveries from suppliers, handles payments, and updates inventory status information, which is stored in D3 Inventory Information.

## **5. 5.0 Manage Customer Relationship:**

- This process is responsible for managing customer relationships, including customer data screenings and updates.
- It interacts with the (D1 Customer Information) data store, ensuring that all customer data is accurate and up to date.

## **6. 6.0 Marketing & Online Presence:**

- The marketing process handles customer inquiries related to quote requests and bookings.
- It also ensures that customer data is updated in the (D1 Customer Information) data store, feeding into the (5.0 Manage Customer Relationship) data process.

## **Data Stores**

### **1.D1 Customer Information:**

- This store holds all customer-related data, which is accessed and updated by the 6.0 Marketing & Online Presence and 5.0 Manage Customer Relationship processes.

### **2.D2 Financial Information:**

- This store holds all financial data, including customer payments, employee payroll information, and supplier transactions. It is updated by the 3.0 Manage Finance System.

### **3.D3 Inventory Information:**

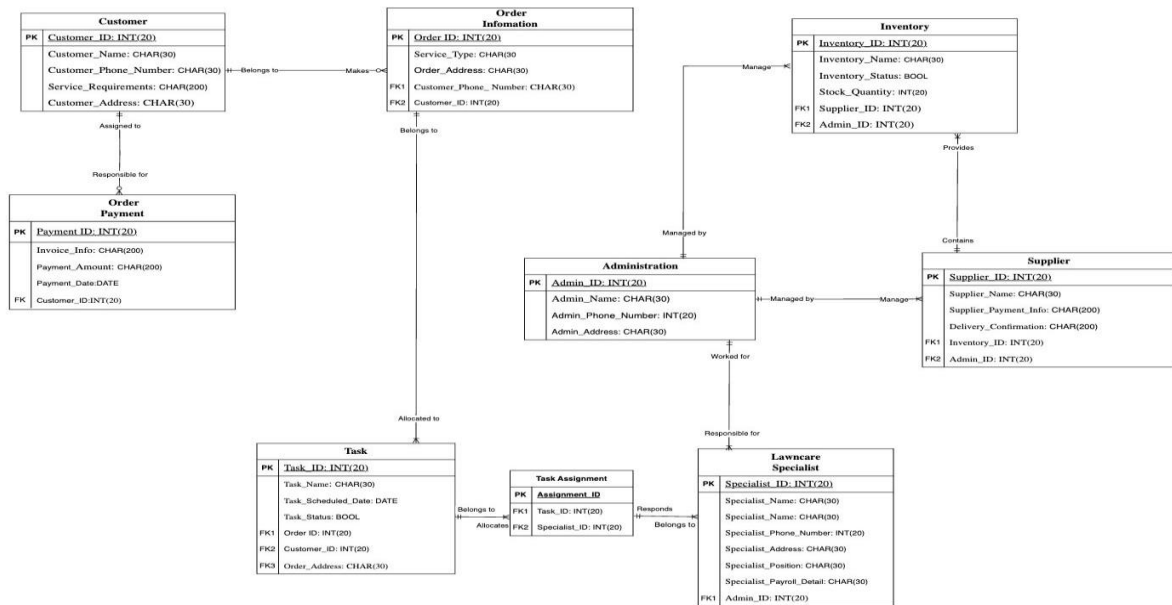
- This store holds all inventory-related data, which is updated by the 4.0 Manage Inventory process based on deliveries and inventory checks.

## **4. Entity Relationship Diagram (ERD)**

The Entity Relationship Diagram, shown in Figure 3, depicts the entities, their multiplicity, and their relationships with each other. Details of the same have been provided herewith.

**Figure 3 - Entity Relationship Diagram**

LAWN CARE SPECIALISTS (LCS) -ERD DIAGRAM



A total of 9 entities have been identified for the new system. Customer, Order Information, Order Payment, Administration, Inventory, Supplier, Task, Task Assignment and Lawncare specialist. Relationships and Cardinality description as below:

Entities	Relationship	Description
Customer and Order Information	One-to-Many	A customer can place many orders, but each order belongs to one customer. A single customer can have many orders. The Customer_ID in Order Information is a foreign key that references the Customer entity.
Order Information and Task	One-to-Many	An order can have multiple tasks assigned, but each task is related to one order. A single order can be assigned many tasks. The Order_ID in Task is a foreign key referencing Order Information.
Order Information and Payment	One-to-One	An order has one payment, and a payment is associated with only one order. Each order is responsible for one payment (1:1). The Order_ID in Payment is used as a foreign key for this relationship.
Task and Task Assignment	One-to-One	Each task is assigned to one specialist, and a specialist is assigned a single task at a time through this table. A task is allocated to one specialist at a time, while each

		task assignment involves one task and one specialist (1:1).
Task and Customer	Many-to-One	Many tasks may be associated with one customer. Orders allow for many tasks to be allocated to a single customer.
Inventory and Supplier	Many-to-One	Many inventory items are supplied by a single supplier, but a supplier may provide many different inventory items. A supplier can provide many inventory items. The Supplier_ID in Inventory is a foreign key that references the Supplier entity.
Inventory and Administration	Many-to-One	An administration entity is responsible for managing multiple inventory items, but each inventory item is managed by only one administration entity. The Administration unit can manage many inventory items. The Admin_ID in Inventory is a foreign key referencing the Administration entity.
Administration and Inventory	One-to-Many	Each administrator manages multiple inventories, but each inventory item is managed by one administrator. Each administrator manages many inventories. The Admin_ID is a foreign key.
Supplier and Inventory	One-to-Many	A supplier provides multiple inventory items, but each inventory item is associated with only one supplier. A supplier can provide many inventory items.
Task Assignment and Lawn Care Specialist	One-to-One	Each task assignment involves one specialist. A specialist is responsible for exactly one task assignment at a time (1:1).

#### IV. Recommendation of a solution

##### **Recommendation of a Solution for Lawn Care Specialists (LCS):**

After a thorough analysis of what LCS requires for current and future operations, recommendations are to implement a comprehensive integrated software including functionalities of GPS-guided route scheduling and up-to-date real-time task optimization for lawn care specialists; CRM to manage customers' information and personalized service & promotions; financial management of automate invoices, payment tracking, payroll, taxing and



generate a financial report; inventory management of track tools, supplies and chemicals along with fleet management. All those features are crucial for optimizing LCS's daily operation, improving customer experience, ensuring financial stability, and managing inventory effectively. The use of such a system also ensures LCS' future expansion and potential further business acquisitions can be up and running in no time.

#### **Estimated Cost** (Cost Analysis for Economic Feasibility Table)

The estimated cost for this software is in total of \$248,000 to develop in-house. It is a significant cost for Ryan and his LCS especially for his current personal situation. Moreover, the required functionalities can be substituted by off-the-shelf options such as Salesforce & MYOB Business Pro. The specific function of GPS-guided route scheduling and task optimization would prefer to be developed as required which will incur the majority of the cost.

#### **System acquisition approach** (Analysis of Pros and Cons of the Buy and Build Approach)

A combination acquisition approach is recommended for LCS, with the purchase of ready-to-use software with customized functionalities to meet what LCS requires. For the CRM, financial management, and inventory management parts, ready-to-use software is ideal and put into use in no time whilst the route scheduling would be better to have customized from specific functionalities. This approach could allow LCS to shorten the waiting time with ready-to-use software functions to deploy and up and running which enable its operation efficiency resulting positive impact financially.

#### **Conclusion**

To summarize, LCS will greatly benefit from the purposed functions of software including route scheduling, CRM, financial management, and inventory management. The suggestion for LCS will be better off to have a combination acquisition approach, first purchase the ready-to-use software from a reliable and reputable provider to take advantage of fast deployment time and put in action for CRM, financial management, and inventory management, meanwhile, hiring a developer for joint venture to develop a route scheduling software with tasks optimization. With the iterative development method, the business will benefit from efficiency.

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Appendices I: Prototype Screen Shots

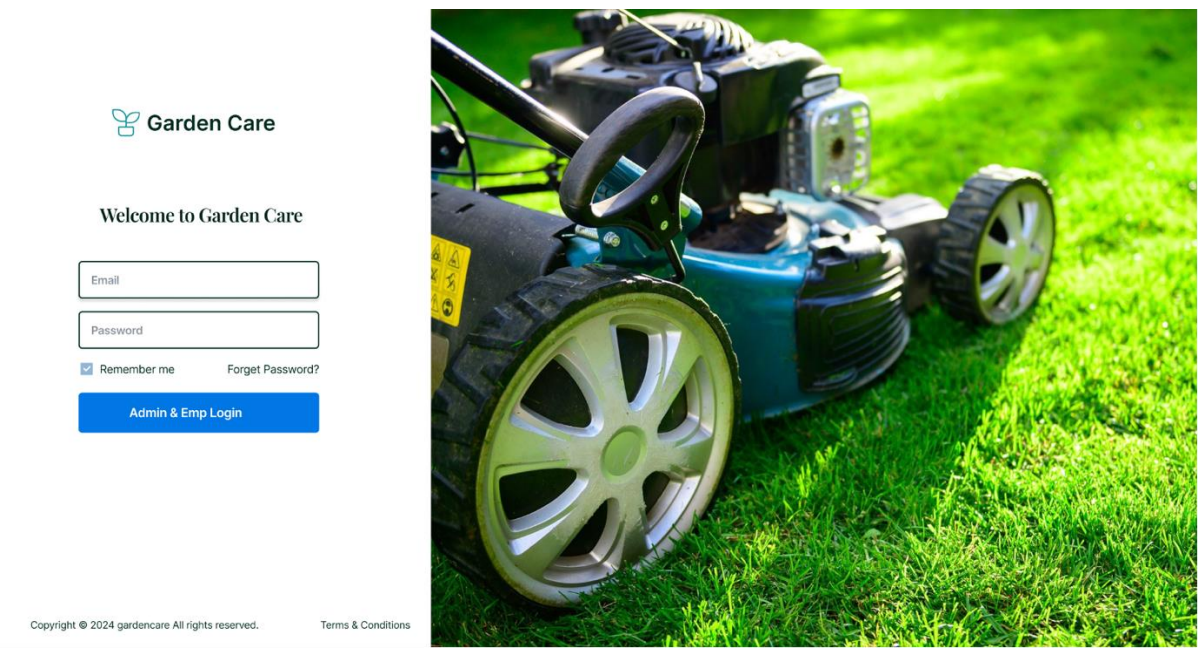


Figure 1 Login Page

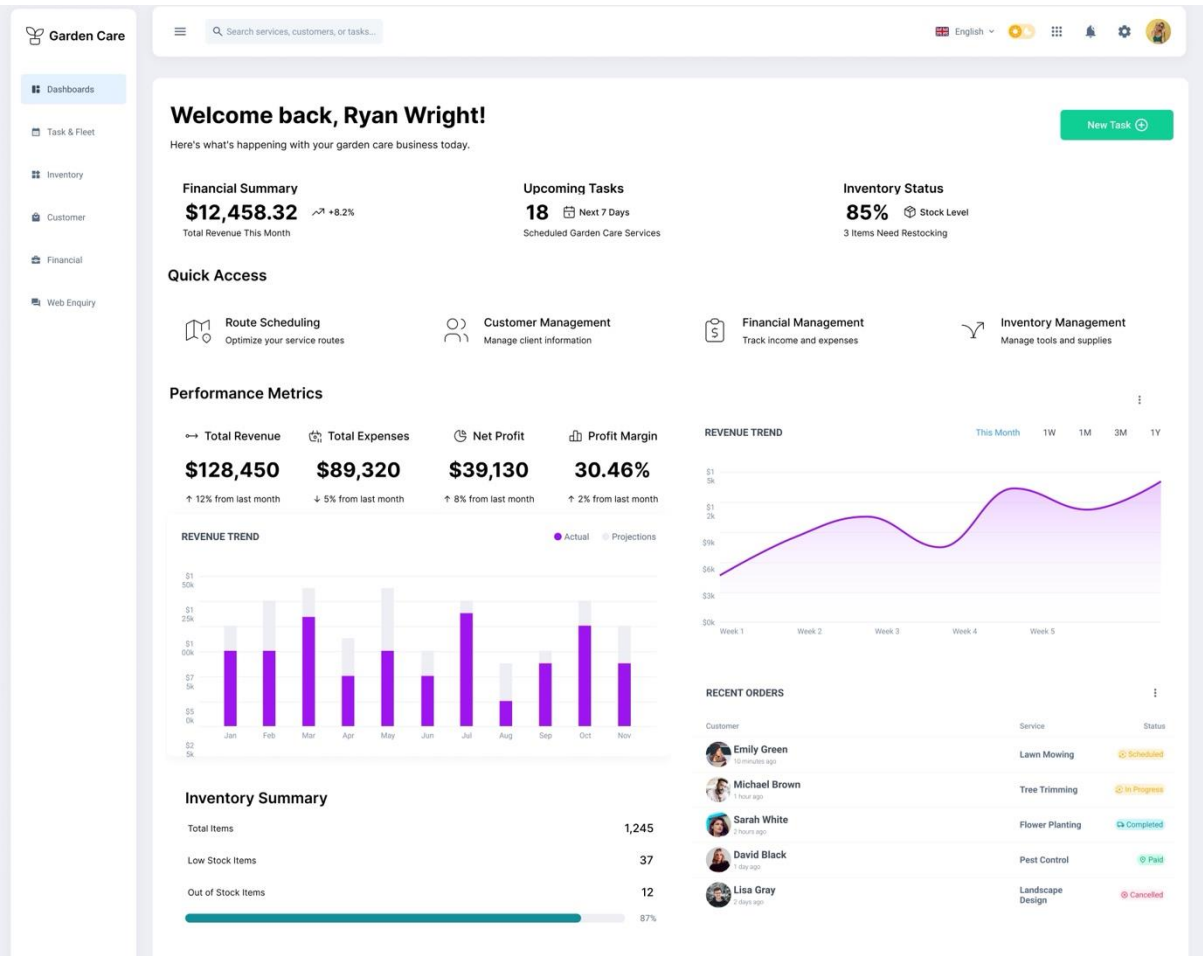


Figure 2 Dashboard Page

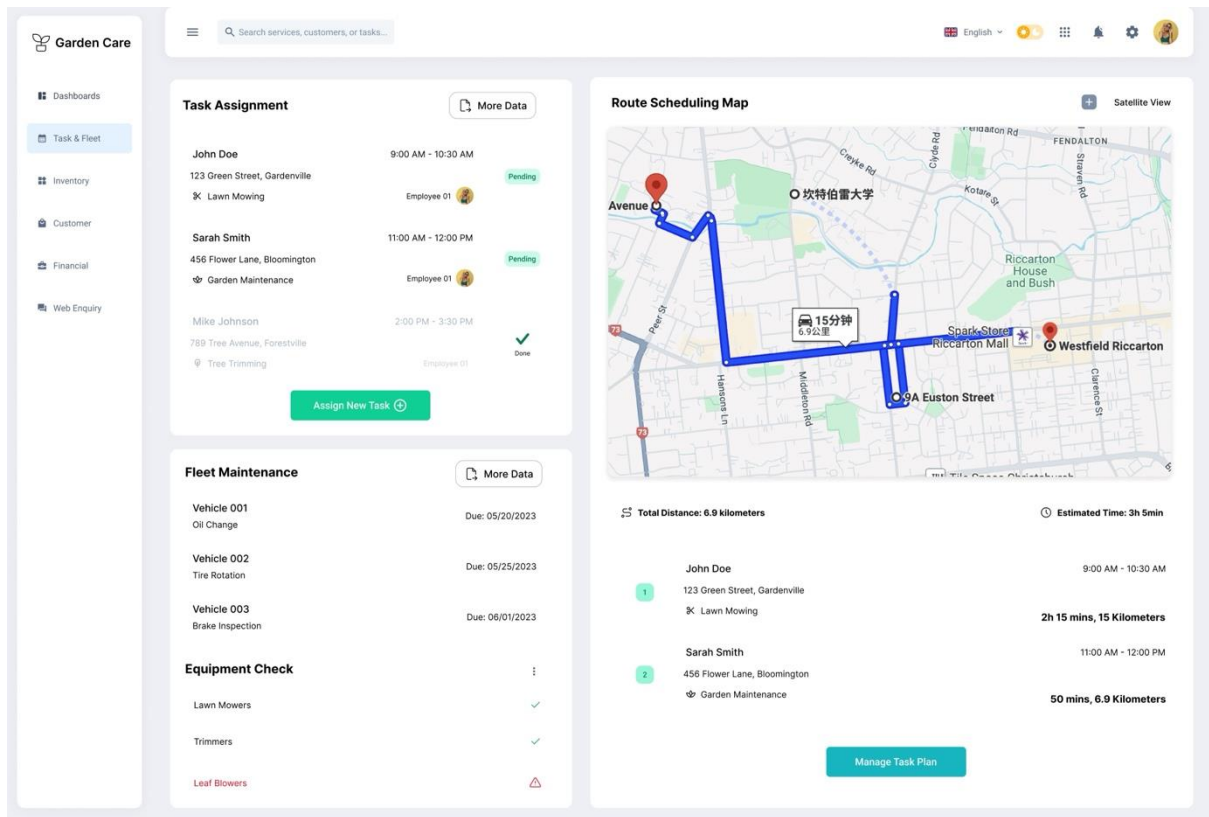


Figure 3 Route Scheduling

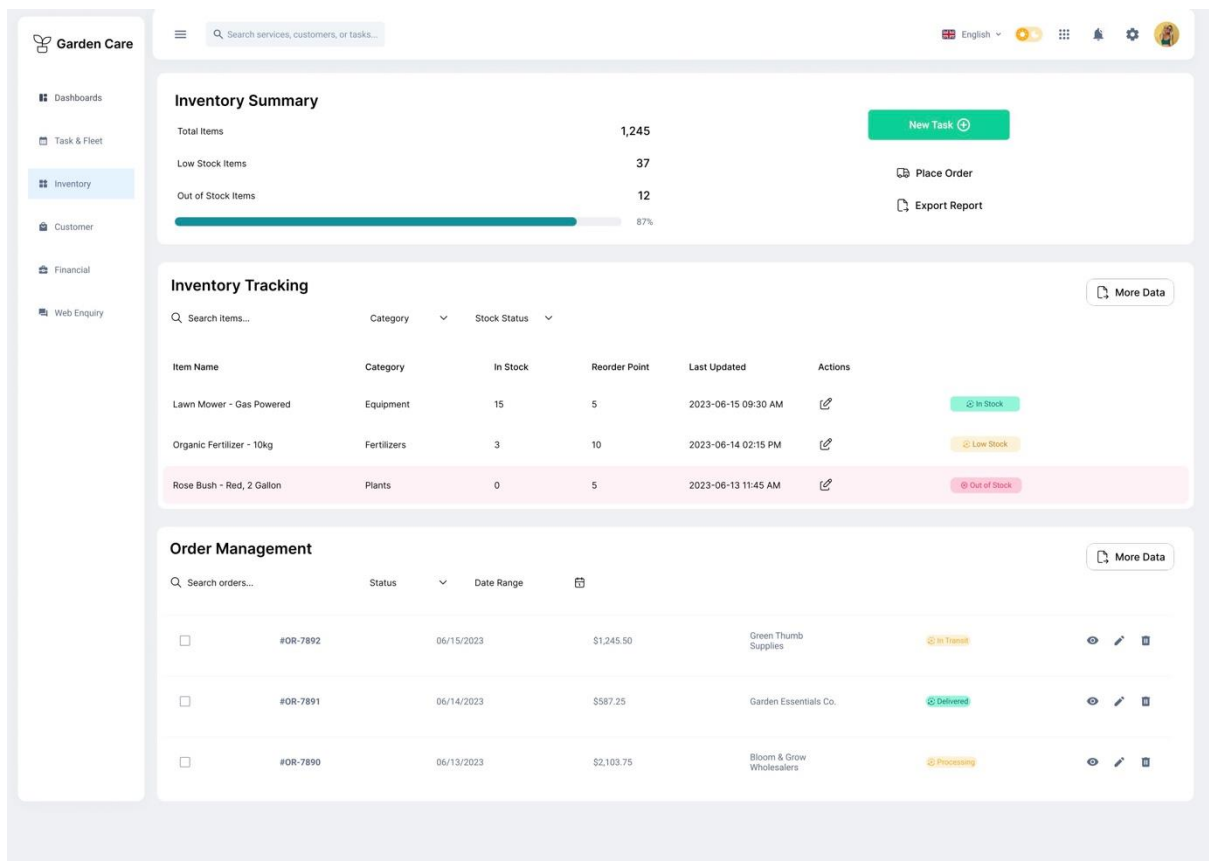


Figure 4 Inventory Management

Search services, customers, or tasks...

English

Dashboards

Task & Fleet

Inventory

Customer

Financial

Web Enquiry

Customer Information Management

Search Customer ...

categorisation

Customer Name	Registration Date	Amount Spent	Region	Options
Customer 01	May 15, 2023	\$2,200.00	Riccarton	
Customer 02	May 14, 2023	\$3,100.00	Riccarton	
Customer 03	May 13, 2023	\$2,880.00	Ham	
Emma Greenthumb	May 12, 2023	\$2250.00	Ham	

Emma Greenthumb

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123 Blossom Street, Greenville, GA 30222

Preferences

Organic gardening

Prefers morning appointments

Specializes in rose care

Loyalty Program

Current Points

1,250

Tier

Gold

Available Rewards

15% off next service

Free garden consultation

Redeem Rewards

Service History

Spring Garden Maintenance

May 15, 2023

Services: Lawn mowing, hedge trimming, flower bed weeding

Duration: 3 hours

Cost: \$180

★★★★★ Excellent service!

Rose Garden Pruning

April 2, 2023

Services: Rose pruning, fertilization, pest control

Duration: 2 hours

Cost: \$120

★★★★☆ Great job on the roses!

Fall Cleanup

November 10, 2022

Services: Leaf removal, garden bed cleanup, mulching

Duration: 4 hours

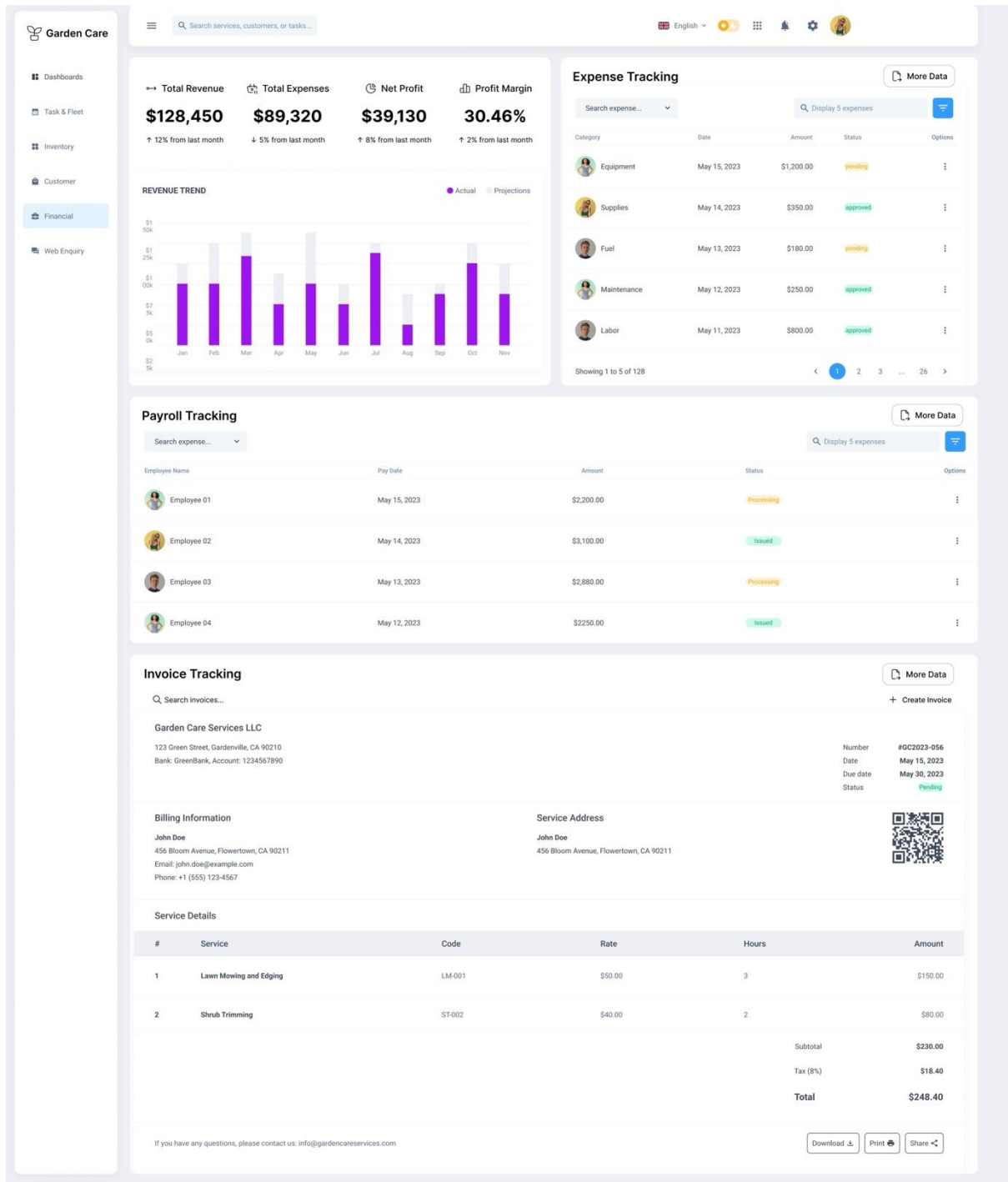
Cost: \$240

★★★

More Data

Figure 5 Customer Management

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## Transform Your Outdoor Space

GARDEN CARE offers professional lawn maintenance, turf construction, and landscaping services to create the garden of your dreams.

 [+ Check +](#)


### Our Services



#### Lawn Maintenance

Regular mowing, edging, and fertilization to keep your lawn healthy and beautiful.



#### Turf Construction

Expert turf laying and construction for a lush, even lawn from day one.



#### Laser Levelling

Precise laser-guided levelling for perfectly even lawns and optimal drainage.



#### Landscaping

Comprehensive landscaping services to design and create your ideal outdoor space.



### About GARDEN CARE

GARDEN CARE has been transforming outdoor spaces since 2005. With a team of experienced professionals and state-of-the-art equipment, we're committed to delivering exceptional lawn care and landscaping services.

Our mission is to create and maintain beautiful, sustainable outdoor environments that enhance the quality of life for our clients. We currently serve the greater metropolitan area and surrounding suburbs.

[Learn more about us](#)

### What Our Clients Say



#### Sarah Thompson

GARDEN CARE transformed our backyard into a beautiful oasis. Their attention to detail and professionalism are unmatched. We couldn't be happier with the results!

★★★★★



#### Michael Rodriguez

I've been using GARDEN CARE for over a year now, and my lawn has never looked better. Their team is always punctual, friendly, and thorough. Highly recommended!

★★★★★



#### John & Mary Wilson

We're retired and wanted a low-maintenance garden. GARDEN CARE designed and implemented the perfect solution for us. Their ongoing care is exceptional!

★★★★★

Figure 7 Website – Main Page



## Welcome to GARDEN CARE in Your Area!

We're excited to offer our expert gardening services in your neighborhood. Explore our range of services and let us help you create the garden of your dreams!

[+ Explore Services +](#)

### Select Your Garden Care Services

#### Regular Maintenance

Choose the frequency of your garden maintenance:

- ☐ Weekly
- ☐ Bi-weekly
- ☐ Monthly

#### One-Time Services

Select the services you need:

- ☐ Turf Construction
- ☐ Landscaping Design
- ☐ Tree Pruning
- ☐ Pest Control

### Request a Quote

Fill out the form below, and we'll get back to you with a personalized quote for your garden care needs.

[+ Request Quote +](#)

### Book Your First Appointment

Ready to get started? Choose a date and time for your first garden care appointment.

November 2022

Sun	Mon	Tue	Wed	Thu	Fri	Sat
30	31	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	1	2	3
4	5	6	7	8	9	10

#### Available Time Slots

☐ 9:00 AM - 11:00 AM

☐ 11:00 AM - 1:00 PM

☐ 2:00 PM - 4:00 PM

☐ 4:00 PM - 6:00 PM

[+ Book Appointment +](#)



## Service Not Available in Your Area

We're sorry, but GARDEN CARE services are not yet available in your area. However, we're constantly expanding our reach to bring our expert gardening services to more locations.

We expect to provide services in this area in the future!



## Register Your Interest

Let us know you're interested in our services. We'll notify you as soon as we're available in your area!

### Services You're Interested In:

☐ Lawn Mowing
 ☐ Garden Design
 ☐ Tree Trimming
 ☐ Pest Control

[+ Register Interest +](#)

## Send Us a Message

Have questions or want to express interest in bringing our services to your area? Send us a message!

[+ Send Message +](#)

## Stay Connected with GARDEN CARE

While we're not in your area yet, there are still ways to engage with us and stay updated on our expansion!

[+ Subscribe +](#)



## Check Out Our Gardening Blog

### 10 Easy Plants for Beginners

Discover the best low-maintenance plants perfect for novice gardeners. Learn how to care for them and create a thriving garden with minimal effort.

[Read More](#)
[Save for Later](#)

### Sustainable Gardening Tips

Explore eco-friendly gardening practices that help conserve water, reduce waste, and promote biodiversity in your backyard.

[Read More](#)
[Save for Later](#)

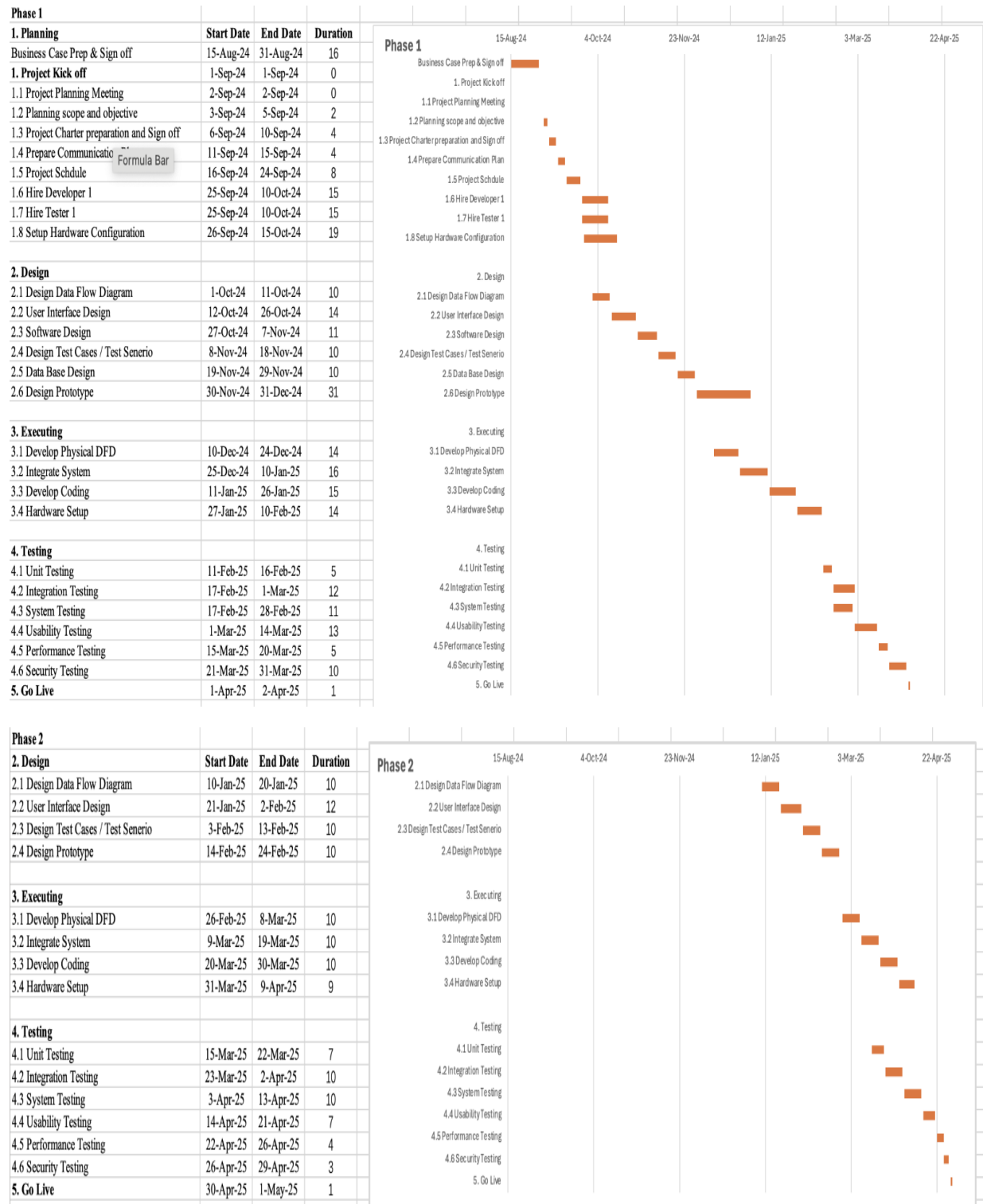
### Seasonal Gardening Guide

Get month-by-month tips on what to plant, prune, and maintain in your garden throughout the year for a beautiful outdoor space in every season.

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Figure 9 Website - Not In Area

## Appendices II: Project Allocation and Gantt Chat



Cost Analysis for Economic Feasibility Table:

<b>Development Expense</b>					
	Staff	Months	Hourly Rate (NZD)	No. of Hours	Costs (NZD)
Project Manager	1	7	\$65	840	\$54,600
UI/UX Designer	1	4	\$55	640	\$35,200
System Analyst	1	5	40	800	\$32,000
Developer	2	5	\$50	1600	\$80,000
Tester	1	3	\$50	480	\$24,000
Hardware costs					\$8,000
Integration costs					\$15,000
<b>Total Expenses</b>					<b>\$248,800</b>

### Analysis of Pros and Cons of the Buy and Build Approach:

Pros:	Cons:
<ul style="list-style-type: none"> <li>✧ Lower up front cost.</li> <li>✧ Purchasing off the shelf software greatly reduce need waiting time and enable fast implement and deploy process.</li> <li>✧ Purchasing off the shelf software greatly reduce need waiting time and enable fast implement and deploy process.</li> <li>✧ Purchasing reliable software will be more cost efficient</li> <li>✧ Lower system maintenance and training cost.</li> <li>✧ Free update on new functions.</li> </ul>	<ul style="list-style-type: none"> <li>✧ Off-the-shelf software may require customization which could cause high costs and longer implementation time.</li> <li>✧ Limited customization may differ from what LCS required.</li> <li>✧ Potential new Software integrate difficulties.</li> </ul>