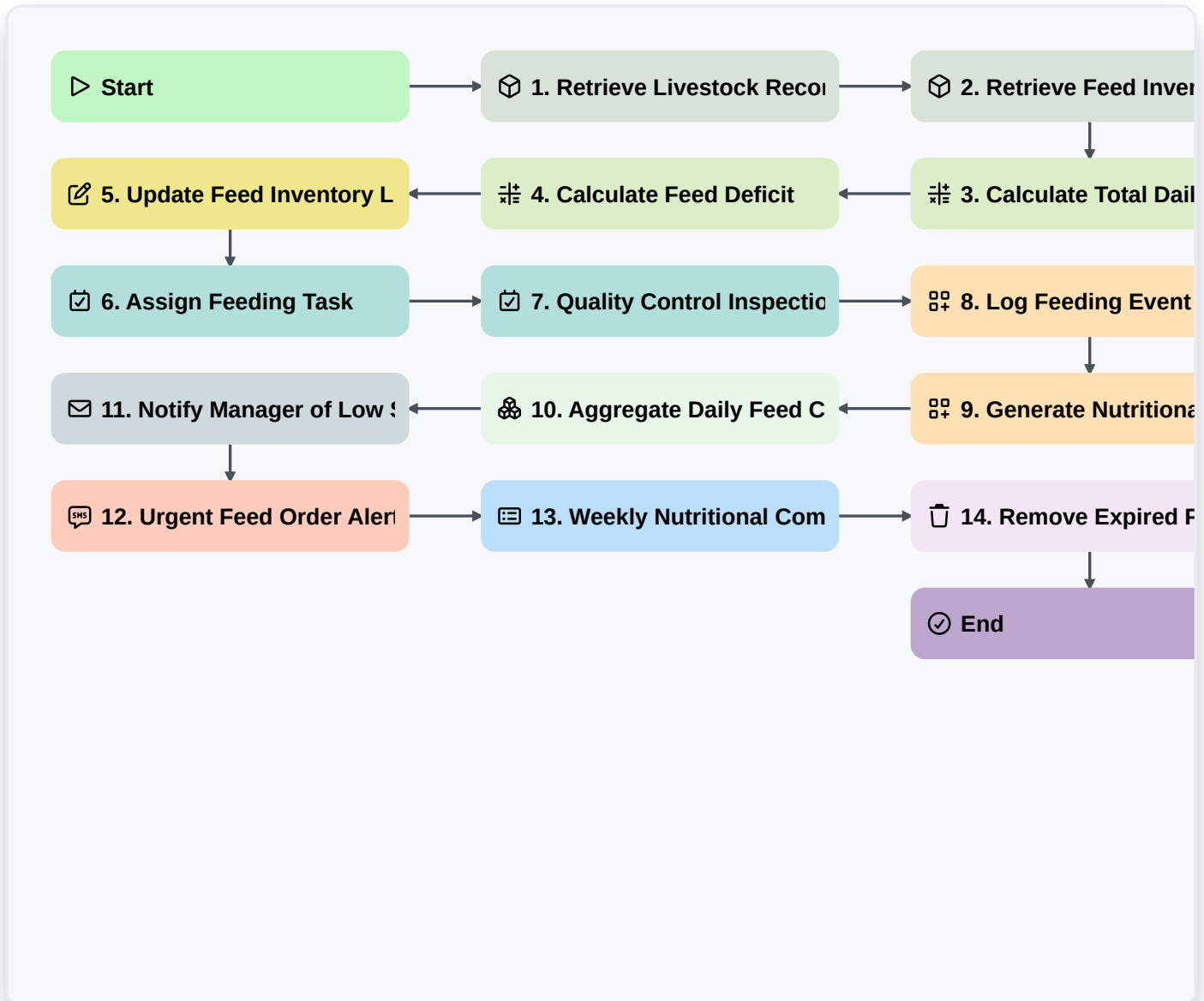


# Livestock Feeding And Nutrition Management Workflow



## ▶ Start

Start of the Workflow/Process.

## 📦 1. Retrieve Livestock Records

Fetch all active livestock entries from the Livestock Data Model to identify nutritional needs.

## 📦 2. Retrieve Feed Inventory

Get current stock levels of all feed types (grain, silage, hay) from the Inventory Data Model.

## 🔢 3. Calculate Total Daily Ration Requirement

Calculate the total weight of feed needed by summing the individual nutritional requirements of all livestock in the group.

## 🔢 4. Calculate Feed Deficit

Subtract the Total Daily Ration Requirement from the available Feed Inventory to determine if more feed is needed.

## ✍️ 5. Update Feed Inventory Levels

Deduct the amount of feed used from the Feed Inventory Data Model after a feeding cycle is completed.



### **6. Assign Feeding Task**

Create a task for the Farm Hand to execute the physical feeding of the livestock based on the calculated ration.

### **7. Quality Control Inspection**

Create a task for the Nutritionist to inspect the quality of the feed batch and verify it meets nutritional standards.

### **8. Log Feeding Event**

Create a new entry in the Feeding Log Data Model recording the date, time, quantity used, and livestock group.

### **9. Generate Nutritional Deficiency Alert**

Create a new entry in the Alerts Data Model if the Feed Deficit calculation shows inventory is below safety thresholds.

### **10. Aggregate Daily Feed Consumption**

Sum the total amount of feed consumed across all feeding entries in the last 24 hours.

### **11. Notify Manager of Low Stock**

Send an email to the Farm Manager when the Feed Deficit exceeds a predefined threshold.

### **12. Urgent Feed Order Alert**

Send an SMS to the Supplier or Manager if an immediate feed replenishment is required.

### **13. Weekly Nutritional Compliance Report**

Generate a report summarizing feed usage vs. nutritional targets for the past week.

### **14. Remove Expired Feed Records**

Delete old or spoiled feed entries from the Inventory Data Model to maintain data accuracy.

### **End**

End of the Workflow/Process.