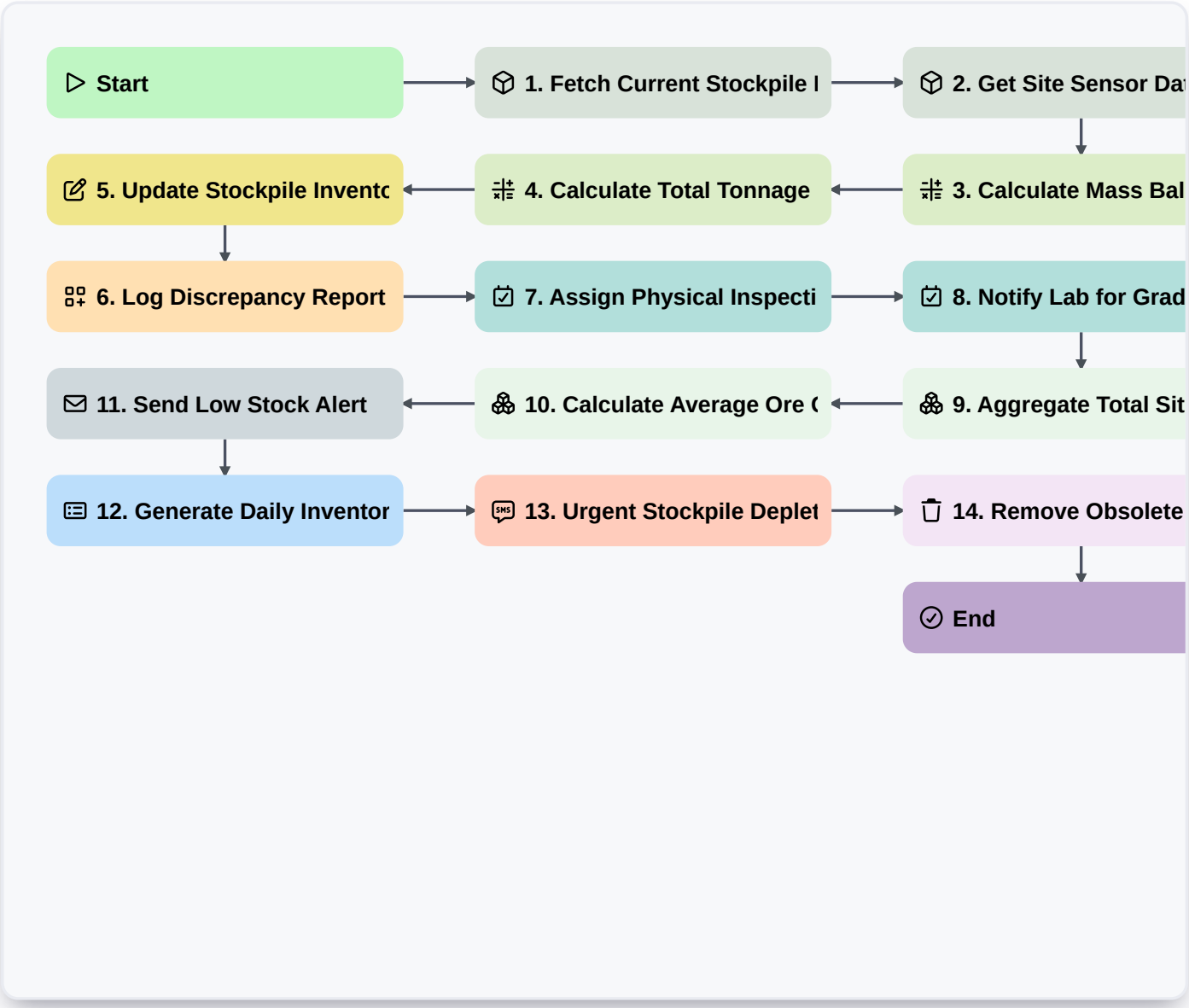
ChecklistGuro

Ore Stockpile Inventory Management



Start
Start of the Workflow/Process.

1. Fetch Current Stockpile Records
Retrieve all existing entries from the Stockpile Data Model to identify current ore volumes and grades.

2. Get Site Sensor Data
Retrieve the latest weight and volume readings from automated stockpile sensors or belt scales.

3. Calculate Mass Balance
Calculate the difference between incoming ore (inflow) and outgoing ore (outflow) to determine net change.

4. Calculate Total Tonnage
Sum the density and volume measurements to calculate the total estimated tonnage of the stockpile.

5. Update Stockpile Inventory Levels
Update the 'Current Quantity' field in the Stockpile Data Model based on the new calculated mass.

6. Log Discrepancy Report
Create a new entry in the Discrepancy Model if the sensor data differs significantly from the manual survey.

7. Assign Physical Inspection Task
Create a task for the Site Surveyor to perform a manual visual inspection of the stockpile density.

8. Notify Lab for Grade Testing
Create a task for the Laboratory Technician to perform a chemical assay on ore samples.

9. Aggregate Total Site Inventory
Sum the tonnage of all individual stockpiles to get the total ore available on-site.

10. Calculate Average Ore Grade
Calculate the weighted average of the metal content across all stockpiles.

11. Send Low Stock Alert
Send an email to the Operations Manager if stockpile levels fall below the predefined safety threshold.

12. Generate Daily Inventory Report
Generate a formal PDF/Excel report summarizing the daily changes in ore tonnage and grade.

13. Urgent Stockpile Depletion Alert
Send an SMS to the Plant Superintendent if a critical stockpile is nearly empty.

14. Remove Obsolete Stockpile Entry
Delete stockpile records from the system once the stockpile has been completely depleted and processed.

End
End of the Workflow/Process.