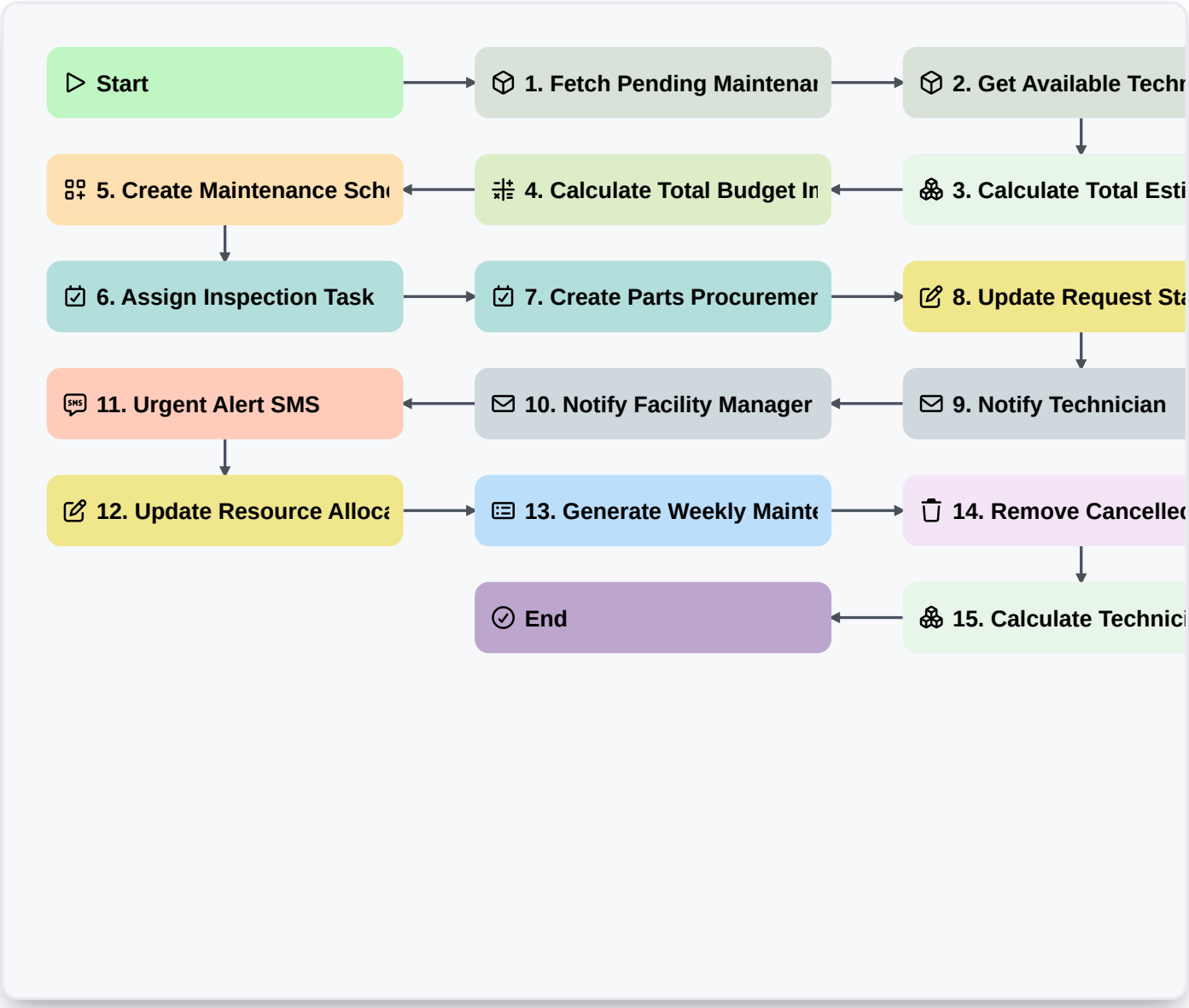
ChecklistGuro

Maintenance Resource Planning Workflow



Start
Start of the Workflow/Process.

1. Fetch Pending Maintenance Requests
Retrieve all entries from the Maintenance Request data model with a status of 'Pending'.

2. Get Available Technicians
Retrieve entries from the Staff data model where role is 'Technician' and status is 'Available'.

3. Calculate Total Estimated Cost
Sum the 'estimated_parts_cost' and 'estimated_labor_cost' from the selected maintenance requests.

4. Calculate Total Budget Impact
Calculate the total cost including a 10% contingency buffer (Total_Cost * 1.10).

5. Create Maintenance Schedule
Create a new entry in the Maintenance Schedule data model with the assigned technician and date.

6. Assign Inspection Task
Create a task for the assigned Technician to perform the initial site inspection.

7. Create Parts Procurement Task
Create a task for the Procurement Officer to order necessary parts identified in the request.

8. Update Request Status to 'Scheduled'
Update the status field of the original Maintenance Request to 'Scheduled'.

9. Notify Technician
Send an email to the assigned technician with the details of the new maintenance task and schedule.

10. Notify Facility Manager
Send an email notification to the Facility Manager confirming that the maintenance has been scheduled.

11. Urgent Alert SMS
Send an SMS to the technician if the maintenance priority is set to 'Emergency'.

12. Update Resource Allocation
Update the Technician's data model entry to change their status from 'Available' to 'Busy'.

13. Generate Weekly Maintenance Forecast
Create a summary report of all scheduled maintenance activities for the upcoming week.

14. Remove Cancelled Requests
Delete entries from the Maintenance Request model that have been marked as 'Duplicate' or 'Invalid'.

15. Calculate Technician Utilization
Calculate the average number of assigned tasks per technician to monitor workload.

End
End of the Workflow/Process.