Module 5.2 Assignment

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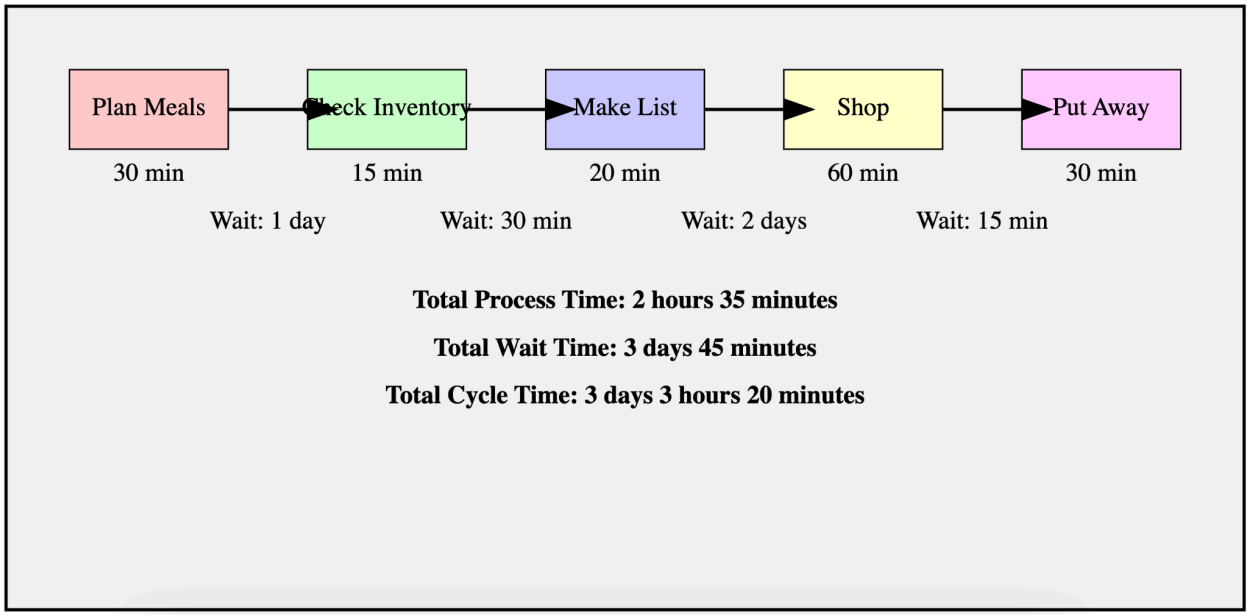
Weekly Grocery Shopping VSM



Analyzing Lean Metrics and Optimizing Processes:

Lean Metrics Analysis:

- Total Process Time: 2 hours 35 minutes
- Total Wait Time: 3 days 45 minutes
- Total Cycle Time: 3 days 3 hours 20 minutes

The longest wait time is between making the list and shopping (2 days), which significantly increases the cycle time. The shopping process itself takes the most active time (60 minutes).

Optimization Strategies:

a) Eliminating Waste:

- Combine "Check Inventory" and "Make List" steps by using a digital inventory system or app, potentially saving 15-20 minutes.
- Use a meal planning app that generates grocery lists automatically, reducing the "Plan Meals" and "Make List" times.

b) Workflow Orchestration:

- Move "Shop" closer to "Make List" to reduce wait time. Consider online grocery shopping with next-day delivery.
- Implement a perpetual inventory system to eliminate the separate "Check Inventory" step.

c) Governance Models:

- Establish a rule to update the digital inventory immediately after putting groceries away.

- Set a fixed day for meal planning and shopping to create a consistent routine.

Optimized Process:

1. Plan Meals & Make List (combined): 40 minutes
2. Shop (online): 30 minutes
3. Wait for Delivery: 1 day
4. Put Away: 30 minutes

New Metrics:

- Total Process Time: 1 hour 40 minutes
- Total Wait Time: 1 day
- Total Cycle Time: 1 day 1 hour 40 minutes

This optimization could potentially save nearly 2 days in cycle time and reduce active process time by almost an hour.

4. The graphic file for the VSM is provided in SVG format in the artifact above. This can be easily converted to other office formats if needed.