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CSD 380 - DevOps

Assignment: Value Stream Mapping (VSM)

Apr 14-20

Weekly Grocery Shopping Routine - Value Stream Mapping

Value Stream Map Description

This Value Stream Map (VSM) covers my typical weekly grocery shopping routine, including each major step in the process, associated estimated flow times, and ideas for optimization using lean metrics. This isn't my exact routine as I'm far too inconsistent with the shopping, but it does approach or emulate my routine when in effect.
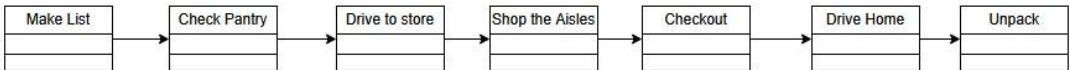
Value Stream Steps and Flow Times

Step	Flow Time
Make List	10 mins
Check Pantry	5 mins
Drive to Store	15 mins
Shop in Aisles	40 mins
Checkout	10 mins
Drive Home	15 mins
Unpack Groceries	10 mins

Estimated Total Cycle Time: 105 minutes

Lean Metrics and Optimization

Cycle Time: 105 minutes

Optimization Strategies:

- Eliminate Waste:
    - Organize grocery list by store layout to avoid backtracking.
    - Meal plan in advance to reduce impulse buys and time spent deciding in store.
- Workflow Orchestration:
    - Combine list making and pantry check into a single step.
    - Shop during off peak hours to shorten checkout wait times.
- Governance & Automation:
    - Use a smart grocery list app that tracks pantry inventory and suggests reorders.
    - Assign tasks (e.g., unpacking) to co-habitants to reduce my total effort.