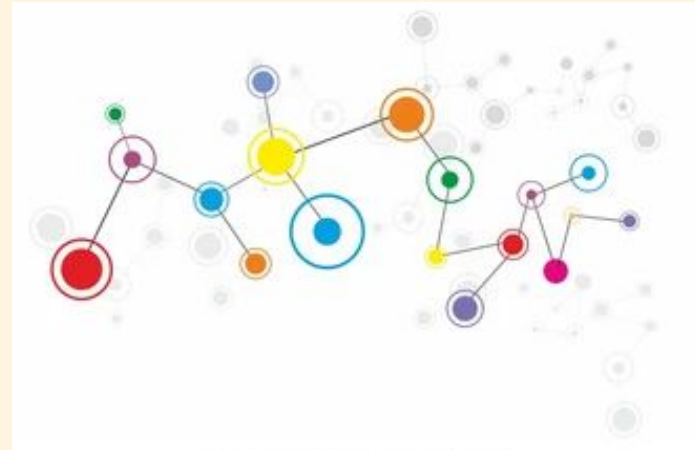# Central Inventory Network

Heidi Wang

Value

The Central Inventory Network makes shopping more efficient by searching the inventory of local stores in real time for items on a user's shopping list to find prices within their budget at stores within their reach.

Market

Size
- millions of dollars

Competitors
- Google, Amazon, stores, brands

Segment
- young adults ages 18-27 in the local Seattle area

Feedback
- aggregating the list of items for which the user searches
- adjusting the degree of specificity in an item search

Objectives

At least one metric
- Time: Users spend 5% less time on shopping trips each month
- Money: Users spend 5% less money in an average shopping trip
- Travel: Users travel to multiple stores in the same shopping trip 5% less often
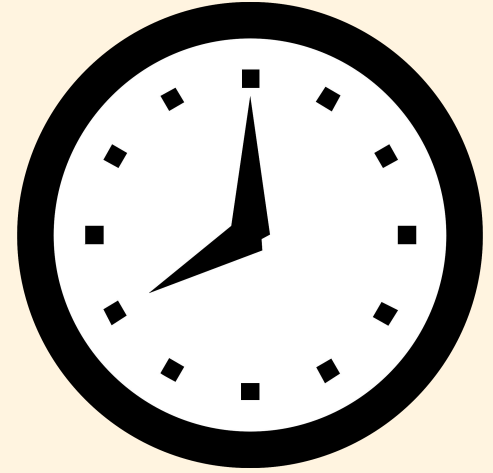
Scope

Items
Included:
- Grocery
- Household
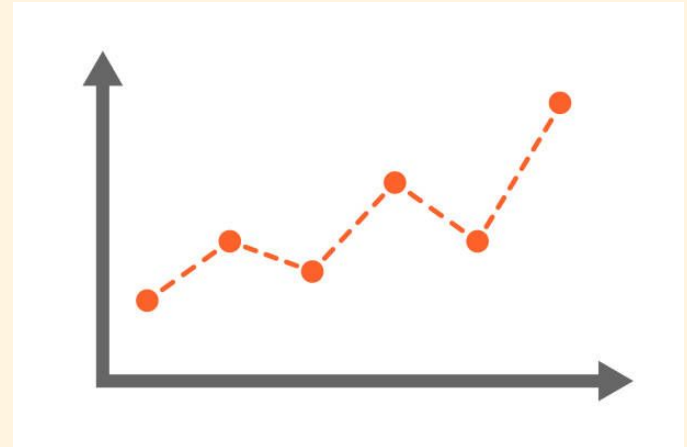
Not included:
- Sports
- Electronics
- Office
- etc

Features
Not included:
- Shopping list
- Search specificity
- Item ratings
- Store hours
- Purchase history
- Buy again
- Save for later

Functional Requirements

- Efficient search

- Up to date information

- Prices

- Store addresses and distances

- Prioritize money or time

Strategic Product Roadmap

	2024			2025											
Year	**2024**			**2025**											
Quarter	Q4			Q1			Q2			Q3					
Task	October	November	December	January	February	March	April	May	June	July	August	September
Week	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4

Version: Version 1.0 (October – March), Version 2.0 (April – September), Version 3.0 (September)

Tasks:
- Initiation
- Research
- Design
- Prototyping
- Validation
- Front end
- API
- Integration
- Database
- Marketing
- Launch
- Feedback

Version 1

Strategic Objectives
Version 1 is the initial release of the network. The primary goal is to provide something akin to a minimum viable product. It should provide the central functionality of searching store inventory and aim to make grocery shopping more efficient.

Key Features and Milestones
Search for an item at nearby grocery stores.
Filter and sort by price and distance.
Support for up to 100 stores and 500,000 items.
Up to date inventory data.
Efficient adoption process for stores.

Version 2

Strategic Objectives
Version 2 aims to expand the item search. It will allow more customization on search metrics, allowing for more precise results for users' efficiency. This version will also expand the stores included in the network.

Key Features and Milestones
Expand to search general stores, like supermarkets. Expand search functionality to include keeping track of multiple items (ie searching for a list of items), adjusting the specificity of a search, and viewing and searching with item ratings and store hours.
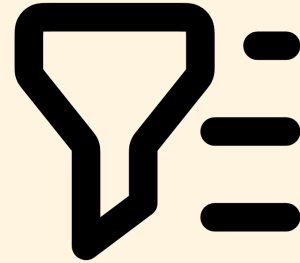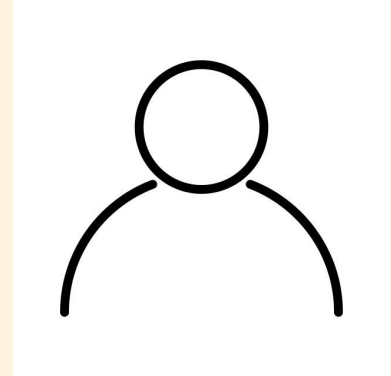
Version 3

Strategic Objectives

Version 3 will add user data to the service. This will allow users to access purchase history and saved items. This will make the service further support efficiency by accounting for recurring items in shopping lists. This version will also expand the stores included in the network.

Key Features and Milestones

Expand to search clothing stores.
Add user functionality, including viewing and reusing purchase history and saving items for later.

Project Release Plan: Version 1.0

Item	Status	Team	Stage	Priority
Sort by least distance	Testing	Software	Backend	Medium
Filter by least price	In progress	Software	Backend	Low
Filter by least distance	Not started	Software	Backend	Low
API creation	Completed	Software	Backend	High
Database at scale	Testing	Data, Dev Ops	Database	High
Up to date inventory data	In progress	Software, Data, Dev Ops	Database	High
External inventory systems integration	In progress	Software, Dev Ops	Integration	High
Adoption process framework	In progress	Dev Ops	Integration	Medium
Technical support framework	In progress	IT	Integration	Medium
Video Trailer	Not started	Marketing	Marketing	Medium
Poster	Not started	Marketing	Marketing	High
MVP User Testing	Completed	Software, User Research	Validation	Medium
MVP	Completed	Software, User Design	Prototyping	Medium
User Flow	Completed	User Design	Design	Medium

Central Inventory Network

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