

Idea to Mission

A case study on how the Mission Agent refines a rough concept into a crystal-clear product vision through intelligent dialogue.

A Simple Request

The user started with a basic need: "I want to build software that makes getting a warm meal on workdays feasible."

- **Goal:** Save time after work.
- **Focus:** One-pot/pan dishes, oven meals.
- **Constraints:** Local only, no cloud, single user.

It was a broad idea lacking specific mechanics.



Phase 1: Identifying the Pain

The Agent's Inquiry

"What are you doing right now to solve the weeknight dinner problem, and what frustrates you about it?"

The agent digs immediately into the root cause rather than features.

The User's Reality

The Core Problem:

- Takeout is too expensive.
- Cold meals (bread/cheese) aren't satisfying.
- Cooking takes too long and creates too much cleanup.

Phase 2: Defining Constraints



Time Limit

The user defined a strict window of **30-45 minutes** from starting to cook until sitting down to eat.



Dietary Needs

The solution must strictly filter for **No Gluten** and **No Lactose** recipes for two people.



No Meal Prep

Weekends are unplanable. The system cannot rely on Sunday prep; it must work on a Tuesday night.

Phase 3: The Interaction Pivot

"It should be an iterative, conversational process — the software suggests options, I give feedback, and it refines until I find something."

— The User defining the core mechanic

Phase 4: Intelligence & Logic



How the AI Chooses

The agent helped define specific logic for the recommendation engine:

- **Variety:** Remember past meals to avoid repetition (e.g., no pasta two days in a row).
- **Context:** Factor in seasonality and current "effort level".
- **Conversation:** The AI acts as a partner, asking "How do you feel today?" before suggesting.

Phase 5: Setting Boundaries

No Social Features This is a personal tool. No sharing, liking, or community feeds.

No Nutrition Tracking Focus is on "warm and healthy," not calorie counting or macros.

No Smart Integrations The user does not own smart kitchen devices; the app shouldn't expect them.

No Weekly Planning The system is designed for spontaneous, day-of decision making.

The Vision: Tuesday Night

By the end of the dialogue, the user had a vivid picture of success:

It is the end of the workday. The user opens the app. The app asks about mood and time. It suggests a few options. They refine together.

Result: The mental burden is lifted. A shopping list is ready. A delicious, warm meal is guaranteed without the stress of decision fatigue.



Content Strategy

Recipe Ingestion

To ensure the system always has relevant options, the agent clarified three distinct data sources:

- **AI Search:** Crawl the web for constraints.
- **AI Generation:** Create recipes from scratch.
- **Manual Entry:** Import favorites from cookbooks.

Memory & Learning

The system needs a lightweight memory.

It's not for complex analytics, but for functional variety—tracking dates and recipe names to ensure the user doesn't get stuck in a "pasta loop."

The Agent's Methodology

Structured Refinement

The Mission Agent didn't just record answers; it guided the structure:

- **Step 1:** Clarified the "Why" (Pain points).
- **Step 2:** Defined the "What" (Features & Mechanics).
- **Step 3:** Confined the "Scope" (What it is NOT).
- **Step 4:** Visualized Success (The Vision).



Mission: SimpleKitchen

The vague idea is now a concrete mission statement, ready for the Specifier Agent to build.

Ready for the Mission Statement?

The resulting document details the **Why**, **Who**, **What**, and **Success Metrics**.

See the full text below.

Image Sources



<https://images.lucentcms.com/mebelarts/2024/l2/6768309fac5b2-modern-kitchen-black-marble-bordeaux.jpeg?w=700>

Source: www.mebelarts.com



https://static.vecteezy.com/system/resources/previews/033/053/336/non_2x/generative-ai-raw-fresh-beef-steak-on-the-table-with-herbs-and-spices-close-up-macro-aesthetic-muted-colors-photo.jpg

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