



Onion Finder



Group members:
(redacted)
Group Number:
Team 0

Problem Statement



- Grocery Stores are large and complicated
 - There's no efficient and complete way to compare ingredients
- Grocery Shopping takes a long time
- Many food items really only matter as ingredients - how will buying (or not buying) this ingredient affect my meals this week?



BLUF: Bottom Line Up Front

- *Shop Smarter and Faster*
 - Food location within grocery store
 - Food nutritional information
 - Mapping ingredients to recipe, and vice-versa
 - Ingredient Substitutes / Comparison
 - Shopping list
 - How easy is this to cook?
 - User Memory
 - shopping memory
 - recipe preferences -> enhance recommendation
 - GPS to food item



Sample Utterances

- “I want a healthy breakfast do you have any suggestions?”
- “I normally get beef sausage, is there a healthier option?”
- “I’d like to make a kale salad.”
- “Hey what can I make with these bananas?”
- “I want cheaper eggs than these, but also cage-free.”
- “What was that really good ice cream I got last month?”
- “Is this kosher for passover?”
- “I’m cooking for a date next wednesday, what should I make?”
- “Where are the onions?”



I normally get ground beef, is there a healthier option?

Ground turkey is a lean alternative to ground beef, you can find it in aisle 5.



Awesome thanks! Can I still make a lasagna?

Yes, here's a recipe for healthy and delicious turkey lasagna!

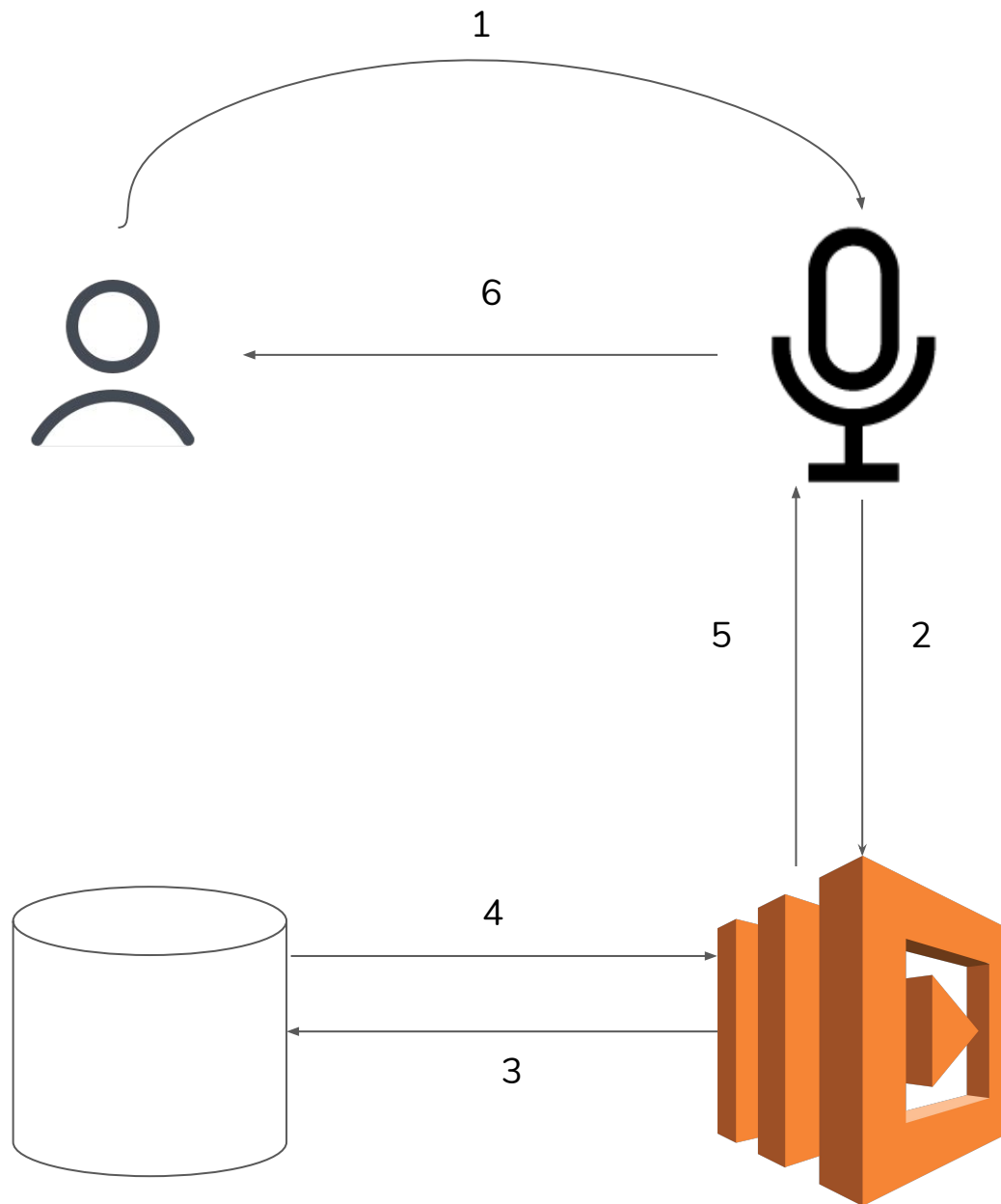


So I'm actually making this lasagna for a date this week, but I think my date is gluten-free. Can I make this lasagna gluten free?

If you use Le Veneziane Gluten Free Lasagne Sheets, then the recipe will be gluten free.



Perfect - Take me to the ingredients!



1. "I want a healthy breakfast, do you have any suggestions?"
2. `get_recipe` competency
3. AWS lambda processes query value slot pairing
4. return recipe json
5. relay recipe json
6. "How about the kale salad, it's packed with protein and fiber"

Success Milestones

- Based on our sprint schedule, what do you think you can get done?
 - Food information retrieval
 - Ingredient(s) <-> recipes
 - Ingredient substitutes
 - Shopping List
- How will you know you're finished?
 - Once we've finished characteristics above and attempted...
 - Using user memory to influence decision making
 - Using GPS to route to item
 - Shopping for situation

Related Technologies

- What technologies will your project entail?
 - Cline stack
 - Django - Simple web app capabilities
 - AWS to contain servers and business logic handling
 - Spark-SQL
 - Python
 - HTML / JS / CSS



Summary

Onion Finder creates a smarter, faster shopping experiences for consumers

SMARTER

- “I ate pork sausage last week but I want something healthier”
- “These eggs are too expensive, I want something cheaper, but still organic.”
- “What was that recipe I made for Thanksgiving last year?”

FASTER

- “Where are the onions?”
- “I want to cook lasagna, can you take me to all the items?”
- “Add butter to my shopping list.”