Smart shopping list

1. Inventory tracker
2. Allows user to manually add entries to the current inventory
3. Allows user to type in entries (DONE)
4. Allows user to record audio
5. Automatically adds entries from the shopping list to the current inventory (DONE)
6. Automatically adds entries from inventory when their levels are low (DONE)
7. Shopping list
8. Allows user to manually add entries to the current shopping list
9. Allows user to type in entries (DONE)
   1. Allows user to expand the view for more detailed inputs, including quantity, unit, category, priority, cost, set custom image, tags
10. Allows user to record audio (NLP based?) (AI)
11. Predictive analytics (AI)

The goal of this feature is to predict when to buy something and how much of it to buy, and what to buy

1. Based on **purchase date**
2. When the user purchases an item more than once, the time gap between purchases is used to suggest the item for the shopping list (contributes to frequency)
3. Based on **quantity**
4. When the user purchases a certain amount of something, that amount can be used to determine when you are likely to run out based on average consumption rate (contributes to frequency calculation)
5. Based on items type (expiration dates) and whether the user like to buy in bulk or not (amount) we can suggest the quantity to be bought on a shopping trip (contributes to frequency and quantity calculation and cost)
6. Based on **seasonality**
7. When the user buys an item during certain seasons (for example ice cream in the summer) the model is more likely to predict that the user will buy this during this time (contributes to frequency and cost)
8. Based on **cost**
9. When the user buys and records a price of something, that amount is used to provide an average estimation of the cost of something per unit quantity if possible (contributes to cost)
10. Prioritization and sorting (AI)

The goal of this feature is to determine what to buy first and what you can ignore

1. Based on item **category**
2. Based on item category (for example dairy products or snacks) the priority of more essential items will have a higher priority number
3. Based on **stock levels**
4. Based on the remaining stock level tracked in the inventory, the item will also get a higher priority if the stock levels are low
5. Based on **user behavior**
6. If the user checks off certain items first on the list and ignores certain items the priority number is adjusted according to their preference
7. **Smart sorting**
8. Sorts the shopping list according to priority numbes in descending order, in case the user wants to make a quick shopping trip and not buy everything at once,
9. Can also sort the list according to aisles or categories, for examples, fruits and vegetables are usually near the entrance so items with this category are placed first etc…
10. Price tracking and budgeting (AI)