**Ma’s Tacos**

**Project Definition**

**Supplier Networks and Inventory**

2/16/2025

1. **Background Statement**

As a food service company, keeping track of all of the ingredients and materials that are on hand will likely prove to be incredibly helpful. To aid in keeping track of all of this, a supplier network and inventory management system would be paramount.

1. **Intentions**

* The main intentions of this project are to create a system that can accurately track ingredients, ingredient orders, and supplier information, optionally tracking things like silverware as well.
* The main reasons behind this are to be able to know when to place new orders for ingredients and to possibly automate that process as well.

1. **Values**

* With the completion of this project, we can expect to be able to accurately track ingredients.
* We can also accept the possibility of tracking ingredient orders and supplier details.
* The process to automate placing new orders could be sacrificed if needed.

1. **Focus**

* Breadth
  1. Processes
     + Inventory management
     + Order management
     + Supplier information management
     + Order automation
  2. Information
     + Inventory quantities, categories, descriptions, etc.
     + Order information (items, quantities, dates)
     + Supplier information (orders, contact information, representatives, etc.)
  3. Events
     + Ingredient tracking
     + Order automation
  4. Groups/Org Units
     + Items, suppliers, and orders
  5. Locations/Sites
     + Cloud server
* Depth
  1. Basic item information including an ID, name, and quantity
  2. Detailed order information including dates, quantities, and more
* Emphasized Perspectives
  1. Employees should be able to either easily understand the system or have it be entirely abstracted from them when they fulfill customer orders.
  2. Managers and Owners should be able to view and easily understand the information held in the system, as well as manually make orders if needed.
* Universality

1. Somewhat generic, so that it can be modified to include new ingredients, suppliers, or automation as time goes on.
2. This solution is expected to last for the life of the company, so it needs to be built with modularity and longevity in mind.

* Scope of Integration

1. Ideally this system should be integrated with other software to automate updates to the database for things like fulfilling orders, to show that certain ingredients have been used.
2. **Context**
3. Creating automation for things like updating the database when food is prepared as well as ordering supplies when certain items are running low will probably be the most difficult part of this process.

# Stakeholders

1. *Owners*
2. *Employees*

# Candidate Solutions (if any)

1. A simple database system that is integrated with the other systems that are being created. External code could be run on the database from other software to facilitate the automation of certain processes. This code could be integrated with other software such as the software that runs on the cash register for placing customer orders.