Reasoning for my CRUD Analysis within each use case:

* 1. Add Part to system
* A part is created and then added to the inventory.
* The inventory has to be created to store the part
* The part is created and placed in the inventory
* The Vendor order is needed because if its purchased from a vendor, It will need vendor order info
  1. Identify Resource:
* Inventory will be read and accessed to find what they have.
* Resources will be read and will change the resources when needed for maintenance.
  1. Create Bill of Materials
* A bill of materials will be created and read
* The product which has been created will be read from Parts table and inventory table
* Inventory table can be deleted from as it adds or deletes to the list of parts in inventory
  1. Create a Vendor Account
* A vendor can be created, read, and updated with ratings
* Vendor products that will be ordered are entered, so they need to look at the parts

2.1 Create a Customer Account

- It creates a customer based on information inputted

- It must create an entry for credit history that is linked to that customer

2.2 Create Customer Order

- it must read in customer information and customer credit history

- It must create an order with a head and detail with information received

- It must read parts to place in the order.

2.3 Update Customer Order

- It would have to read in the customer info and update the order based on its details

3.1 Prepare Customer order shipments

- A part is read from inventory to see if its available to ship.

- customers are read and processed.

- Inventory is updated to reflect the new quantity after the order

3.2 Name Production Run

- The bill of materials is read as well as the inventories

- Parts are created and updated based on what’s found from reading the inventories and resources

3.3 Order Product from Vendor

- Vendors are read

- Products are read from the vendor orders then they’re connected to the parts and those are read

- Vendor Orders are created and read

- Vendor Orders are updated if they contain incorrect information

3.4 Receive Vendor Product from Inventory

- Vendor orders must be read to verify that everything is correct.

- The product information is read for its information to verify as well.

- The Inventory is updated and read based on the results from the vendor order

3.5 Transfer Produced Product into inventory

- Vendor order is marked as complete by line worker.

- Line worker is given part to read.

- Inventory is updated and read after receiving finished products.

3.6

- The part is read and updated based on whether the HILO driver thinks its information is correct.