* **Describe Hamp Crafts**’ **current purchase and supply process by responding to the following prompts. Interpret the provided data flow diagram. What does it show? What does the current purchase and supply process entail?**

1. The System/FlowChart shows when customer places an order and the flowchart shows the entire execution process.

The Current purchase and supply process looks like this, seen via the flowchart:

**Customer —> Receive Customer Order (1.0) —> Check Out (2.0) —> Fulfill Order (3.0)**

So this is the path on the flowchart that is the “Main. Path”

In other words this is saying :

Customer places an order, it’s received and processed, payment handled at checkout, and then fulfillment of the order.

**Then there is a branch:**

**2.** In the flowchart: After Fulfill Order (3.0) we have process branches:

If the item is not in stock, the system triggers fallback:

**→ Fulfill Order → Choose Supplier → Supplier → back to Fulfill Order → Shipper.**

The flowchart shows that this ensures that when stock is low, the system restocks automatically before shipping.

**3.** If the item is in stock, it skips the supplier step:

**→ Fulfill Order → Shipper.**

This speeds up delivery when inventory is already available and ready to go.

4. This layered fallback design guarantees that every customer order is fulfilled:

* Either directly or through restocking.
* It prevents situations where an order “slips through” due to missing inventory, keeping the process reliable no matter the stock level.

**For the new online storefront, Hamp Crafts**’ **owners want to ensure that customers can easily view products, pay for them, and receive confirmation of their orders. The owners want to be sure that any payments will be transferred to Hamp Crafts**’ **business account.**

**You have also suggested adding an administrative backend to provide customer support, update customer information, and maintain the website.   
In order to add this functionality, you will need to consider Hamp Crafts**’ **current purchase and supply process. Then you will need to determine the additional requirements needed to support an online storefront by responding to the following prompts:**

**What additional processes are necessary to integrate an online storefront**

**1. Processes to build:**

* We need a product browser so customers can actually view items.
* This includes search and filtering like by category, price, etc.
* We’ll would also need a secure checkout system. We could use PayPal, direct bank transfer, or credit/debit card payments.
* There should be an automated system to handle the receipts email or text confirmations after an order is placed like I’ve seen at taco bell, Walmart etc, its professional.
* We also need an admin account system with security permissions so they can manage orders, products, and see and use customer data if necessary.

**2. Additional data sources the system will need:**

* Full product listings: names, prices, stock levels, images, etc.
* Inventory data : what’s left in stock (like how Walmart and other stores show real-time quantities
* Customer info: name, email, shipping address, maybe even allow full account creation with login and order history.

**3. New databases or systems:**

* Online Orders Database
* Single inventory Database:
* Both the physical store and the website need to pull from the same real-time stock system. This could use SQL or a similar database.If the current system is local-only, it needs to move use an API so the site can read/write safely.

**Finally, determine how to integrate the new online storefront into Hamp Crafts**’ **current purchase and supply process by responding to the following prompt:**

**Would you recommend creating a separate new system for the online storefront or incorporating elements of the online storefront into the current process model?**

**Explain your reasoning:**

**1. Integration Plan:** Keep it clean, don't re-invent the wheel.

**Goal:** Keep one unified system for all the orders.

We don’t need to build a second inventory or process stack because that would just over complicate everything rather then have one simple unified system. Twice the system is twice the work, and twice the chances of a mix up.

**2. Flowchart would look like for a Customer Order**

│

├── **In-Store** → [Receive Order] → [Checkout] → [Fulfill Order]

│

└── **Online** → [Receive Online Order] → [Online Payment] → [Fulfill Order]

↑

**This would share both the inventory and the shipping logic**.

**3. Key Points**

* Both the online and in-store orders go through same order/ inventory system why complicate it.
* Online payments PayPal, or credit card etc, but the cash money still goes to the same business account and the storefront still takes the same cards?
* Inventory is always updated in one place, so there’s no mix-up between online and in-store stock which would lose orders and make customers angry.
* Admins should have a login to manage products, customer info, and orders, thats common security.