3-2 Assignment: Evaluate a Process Model

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**Analyzing the Data Flow Chart:**

In this scenario, we look at a data flow diagram for Hamp Crafts, a craft store, which illustrates their buying and supplying operations. The diagram shows the process flow, that commences with the customer's order, then selects a shipping provider and either proceeds directly to shipping or involves a supplier.

**The present procedure for purchasing and supplying:**

A clear and orderly procedure is depicted in the current buy and supply diagram. Receiving a customer's order, which contains information about the product choices, quantities, and personal details, is the first step. The process next entails choosing a shipping company and starting the shipment process, or if specific requirements are satisfied, it may connect with a supplier. Noting that inventory inspections are essential and that all correspondence about shortages or delivery delays is now done by hand can influence the process's overall effectiveness.

**The following are the main data sources that are used in the current procedure which are essential:**

1. Accept Customer Order: the data source is basically in charge of gathering and keeping track of important order information, including product choices, amounts, and client details.  
2. Check-Out: This step saves transaction-related data while managing the user's order details and requesting payment details.  
3. Fulfill Order: After payment information is completed and verified, this data source makes it easier to send order information to the right shipping and/or supply businesses.  
4. Select Supplier: This data source manages the process of selecting a supplier and communicating order details and customer shipping preferences to the selected shipping business or supplier.  
**To incorporate an online storefront, a few additional actions are necessary:**

User accounts and the login portal, inventory management, payment gateway, customer service, product catalog, shipping options, and email notifications are among the extra steps needed to integrate an online bookstore. These procedures are necessary to guarantee the craft business runs smoothly and to give customers a flawless online shopping experience.

1. Providing a safe platform for clients to create accounts and log into the system.
2. Inventory management involves the implementation of a tracking system for in-stock and out-of-stock products, as well as the capacity to order supplies that are temporarily unavailable.
3. Utilizing a secure and dependable payment gateway to support online purchases.
4. Establishing a customer support system to handle consumer requests and issues.
5. Creation of an online catalog with up-to-date product quantities that reduces as products are purchased.
6. It is necessary to offer a variety of shipping choices, including precise delivery dates and times, a range of shipping companies, and extra shipping characteristics like the location of delivery (front porch, back door, under carport, etc.).
7. Implementation of email and SMS notifications to confirm orders, receipts, delivery dates, delays, and any other details concerning the delivery of the consumer's goods or products.

**The system will require access to the following existing data sources:**

1. Inventory Database: a database for managing and storing product inventory, containing product descriptions, and stock levels.
2. Provider Database: This database consists of information about associated providers and product catalogs.
3. Shipping Database: A database that stores data on shipping companies, that includes costs, availability, and methods of delivery.
4. Customer Data: An encrypted database containing payment information, preferences, and account information for customers.
5. Product Image Database: URLs or an API can be used to access a database that works to store and display images of products.

**Method of Integration:**

I propose incorporating elements of online retail into the existing framework. Utilizing the existing processes and infrastructure, this approach reduces expenses and could facilitate deployment. By extending the current system, we can add new features to support online sales while maintaining uniformity in the purchasing and supply operations. Careful planning and integration are required to provide a seamless transition to the online storefront and enhance Hamp Crafts' overall operational efficiency.