Systems Evaluation

3.1 Event List

After the interview, the researchers were able to identify the glitches of the present system. A list of events or transactions for the proposed system addressing the aforementioned problems was generated.

In general, the proposed system contains five events and they are as follows:

1. Adding new items along with corresponding information needed for later retrieval and alteration.

2. Creating delivery receipts for store or event deliveries.

3. Creating pull-out slips for store-to-warehouse pull-outs and updating of inventory from store-to-store pull-out slips.

4. Updating inventory from store and warehouse sales.

5. Adjusting inventory entries for items with quantity discrepancy based from physical inventory reports.

3.2 Event Diagram of Present System

The process of the present system involves five entities; Administrating Office personnel, Store In-charge, Roving Supervisor, Physical Inventory personnel and Warehouse Officer. Metrotoys Inc.'s manual inventory process requires a number of delegates with specific tasks to keep inventory as updated as possible. The duties of the entities involved are indicated in Figure 3.2.1 (*below*).
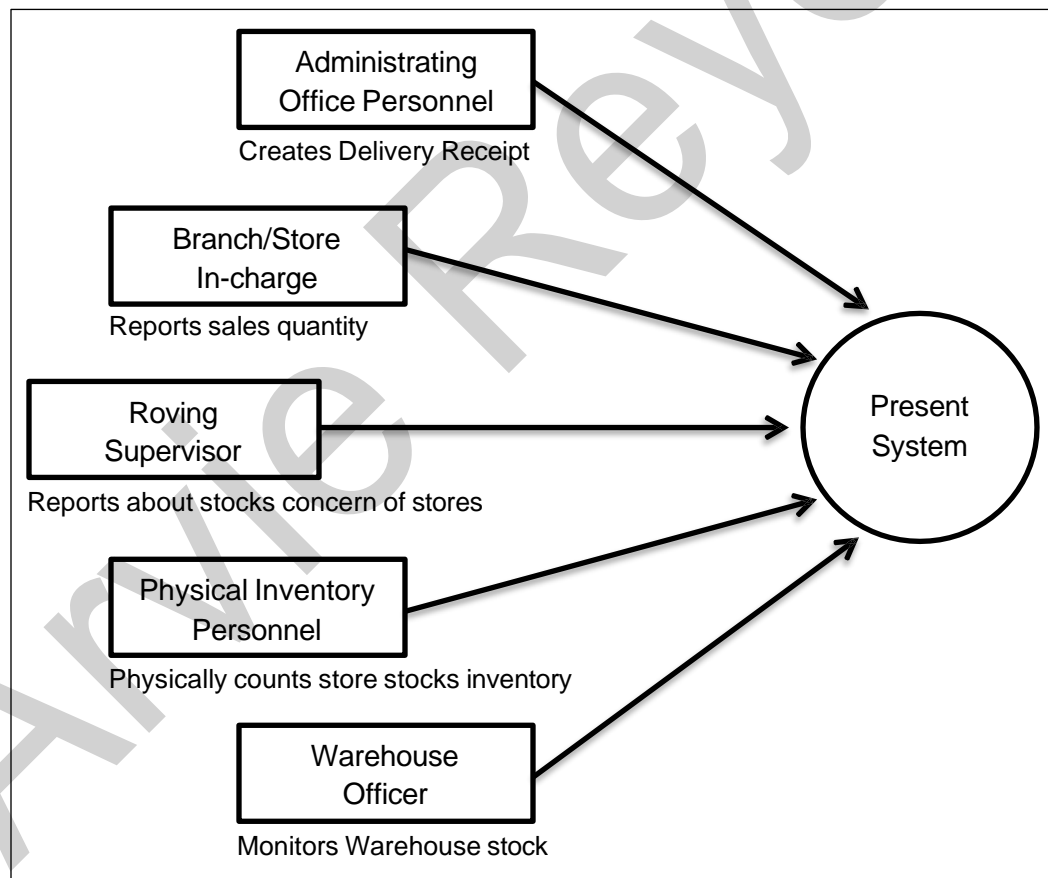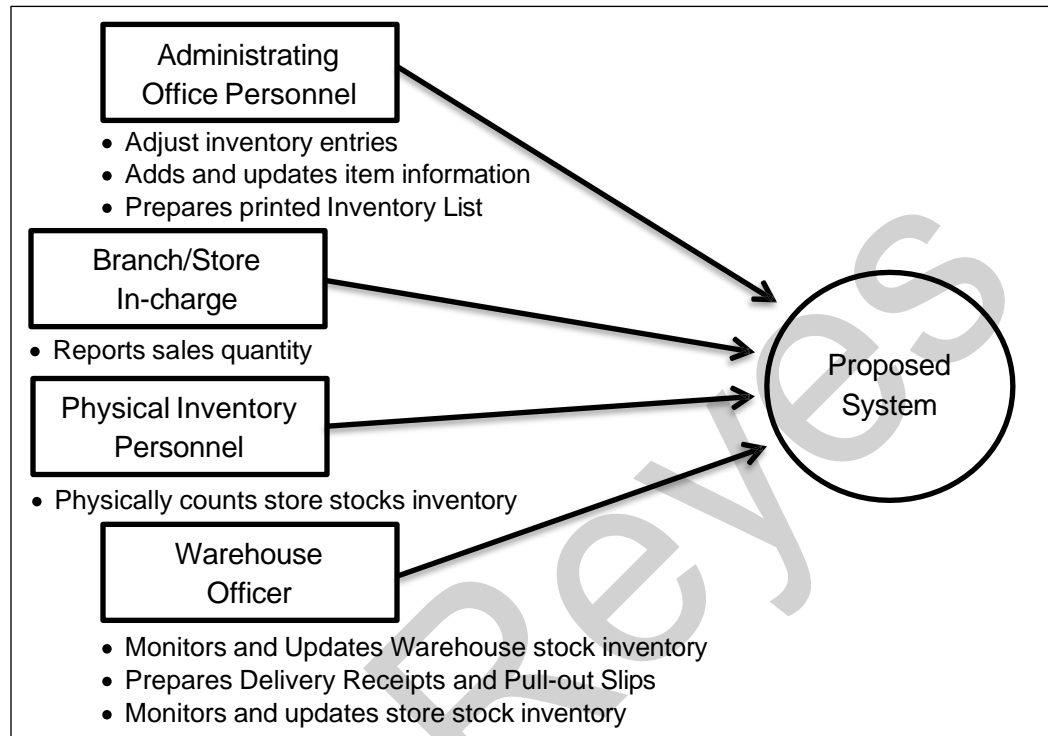
Administrating Office Personnel
Creates Delivery Receipt

Branch/Store In-charge
Reports sales quantity

Roving Supervisor
Reports about stocks concern of stores

Physical Inventory Personnel
Physically counts store stocks inventory

Warehouse Officer
Monitors Warehouse stock

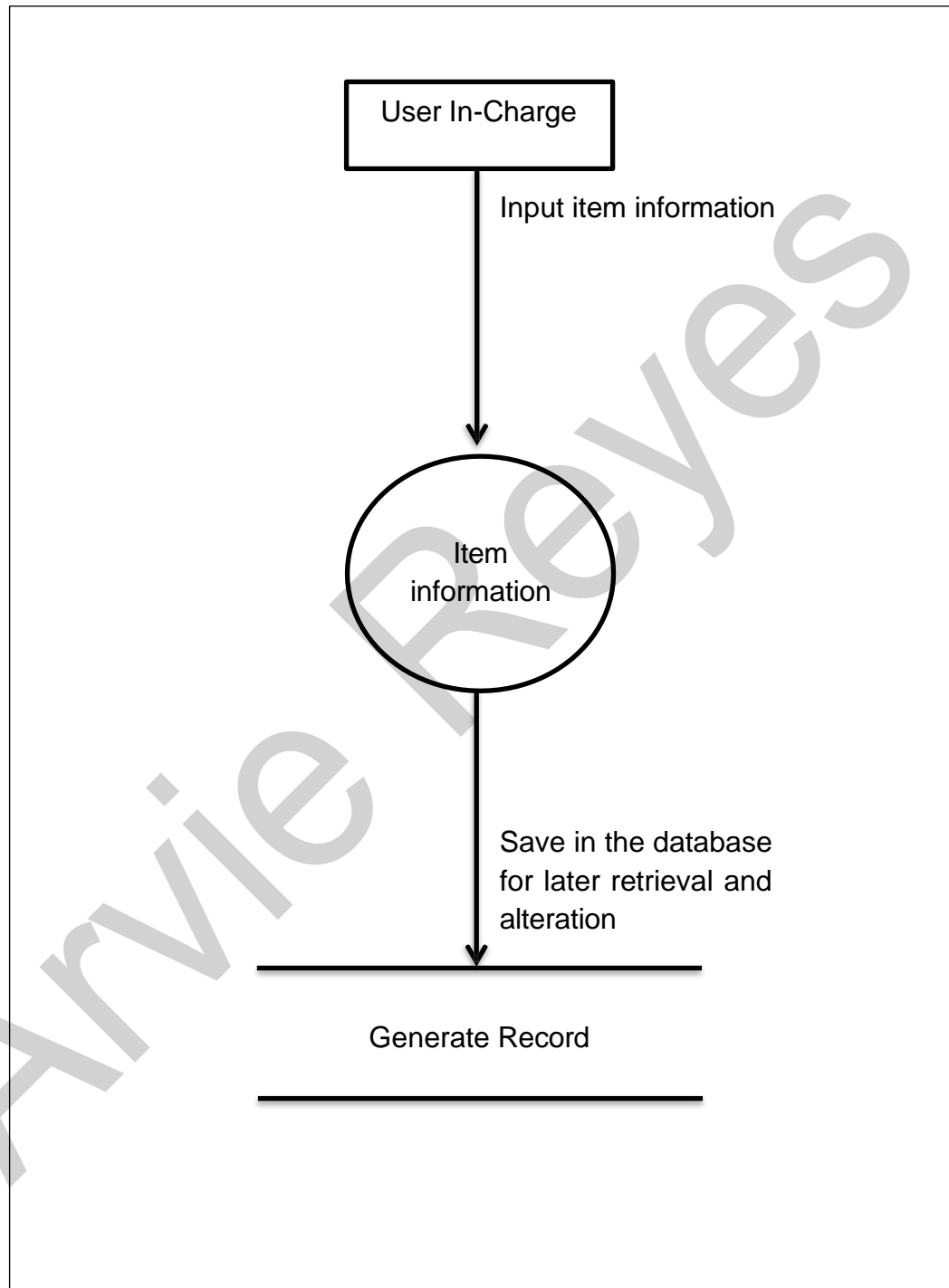Present System

Figure 3.2.1 Event Diagram of Present System

3.3 Event Diagram of Proposed System

Figure 3.3.1 Event Diagram of Proposed System

The proposed computer-based inventory system will enable the warehouse to monitor store stocks by having records of delivery, pull-out and sales quantity report provided by stores, making the Roving Supervisor focus more on concerns other than store stocks. The store stock inventory monitored by the Warehouse Officer can be crossed checked with the Physical Inventory Personnel's reports. If there are any discrepancies due to certain incidents between the expected stock quantity and physical count, the Admin Office Personnel can adjust entries. The Administrating Office Personnel also will be able to add and update item information and prepare inventory reports.

3.4 Event Diagram

Figure 3.4.1 "Adding new items along with corresponding

information needed for later retrieval and alteration" Bubble Diagram
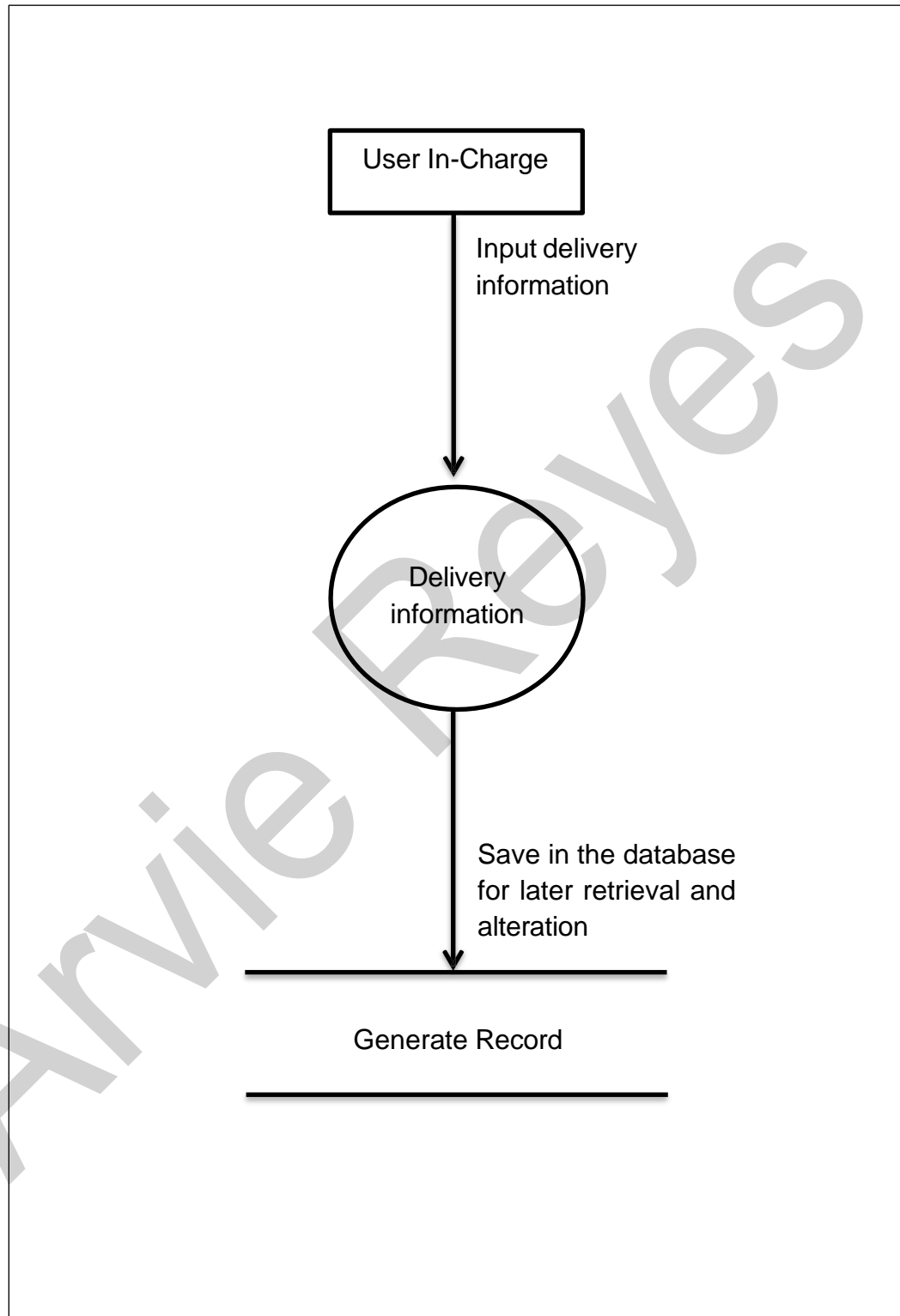
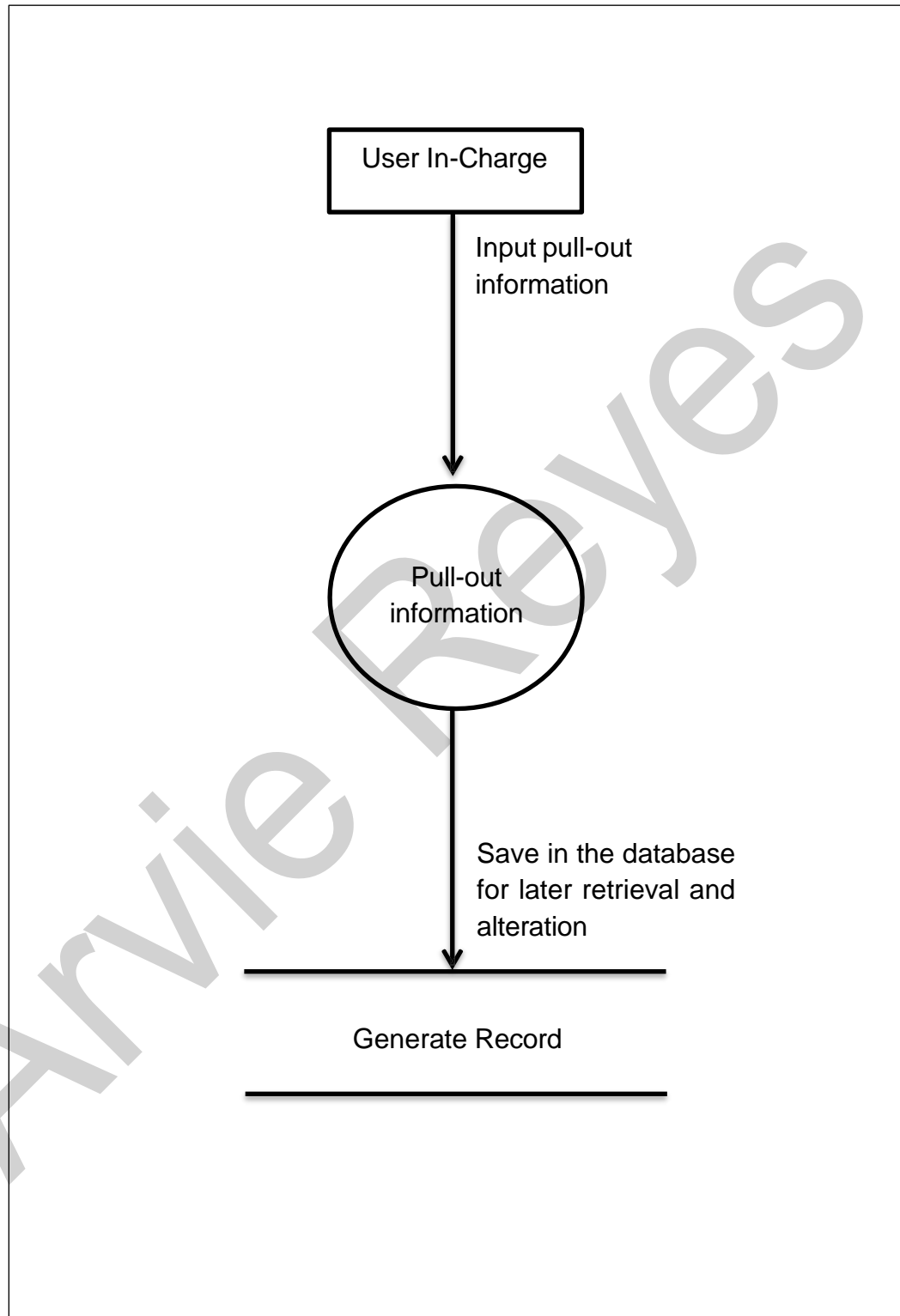*Figure 3.4.2 "Creating delivery receipts for store or event deliveries" Bubble Diagram*

Figure 3.4.3 "Creating pull-out slips for store-to-warehouse pull-outs and updating of

inventory from store-to-store pull-out slips" Bubble Diagram

User In-Charge

Input sales quantity information

Sales quantity information

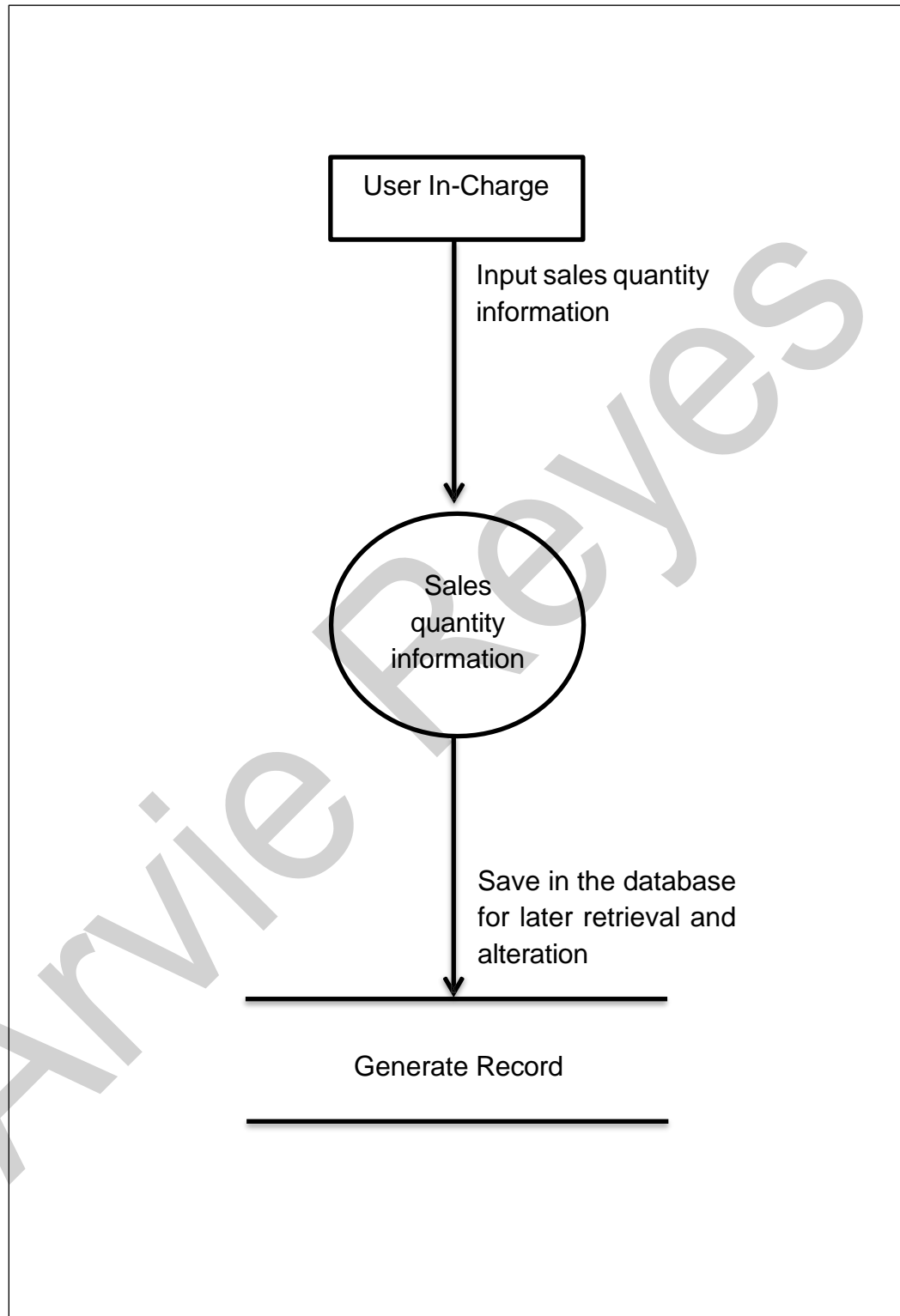Save in the database for later retrieval and alteration

Generate Record

Figure 3.4.4 "Updating inventory from store and warehouse sales" Bubble Diagram
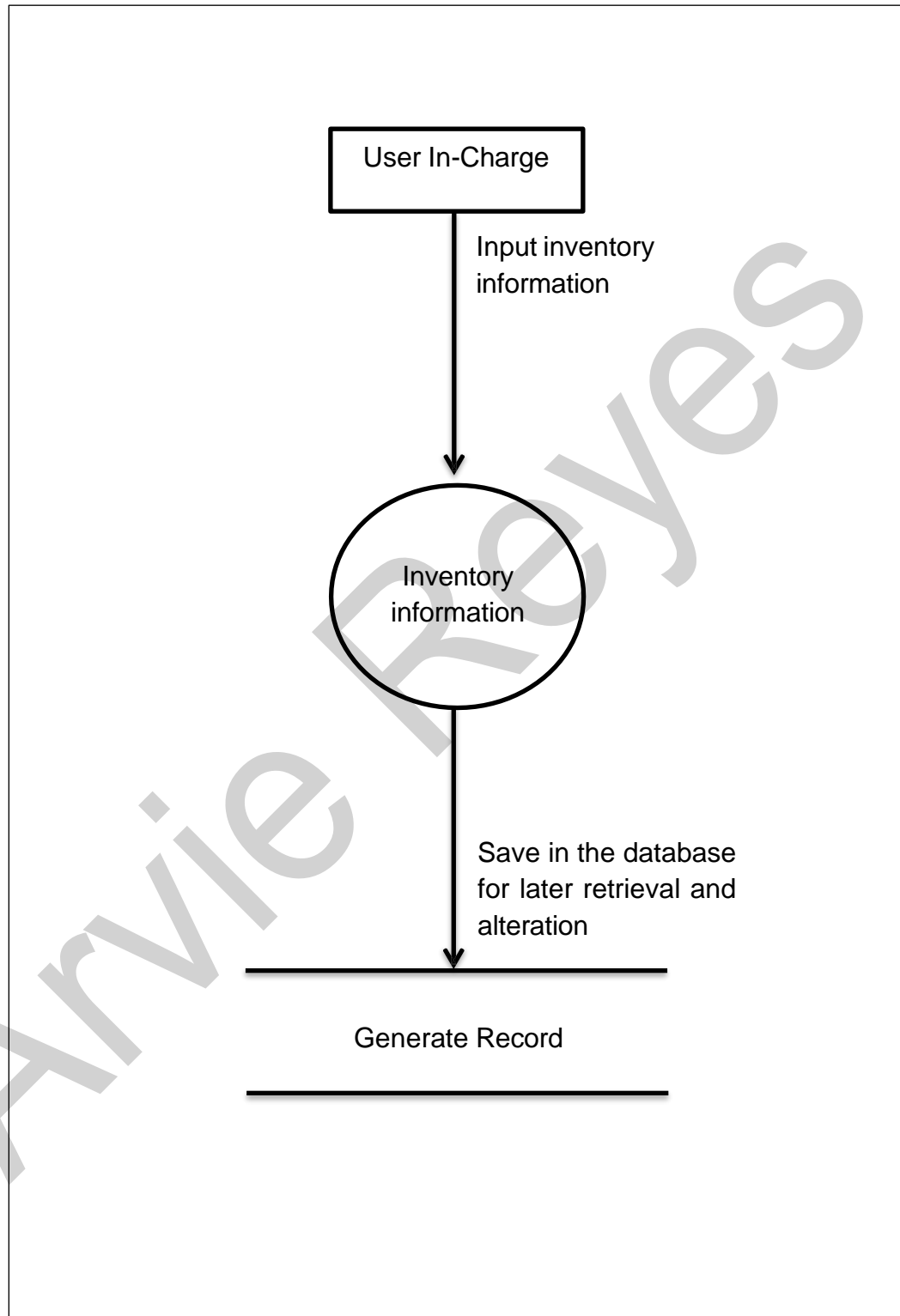
Figure 3.4.5 "Adjusting inventory entries for items with quantity discrepancy based from

physical inventory reports" Bubble Diagram
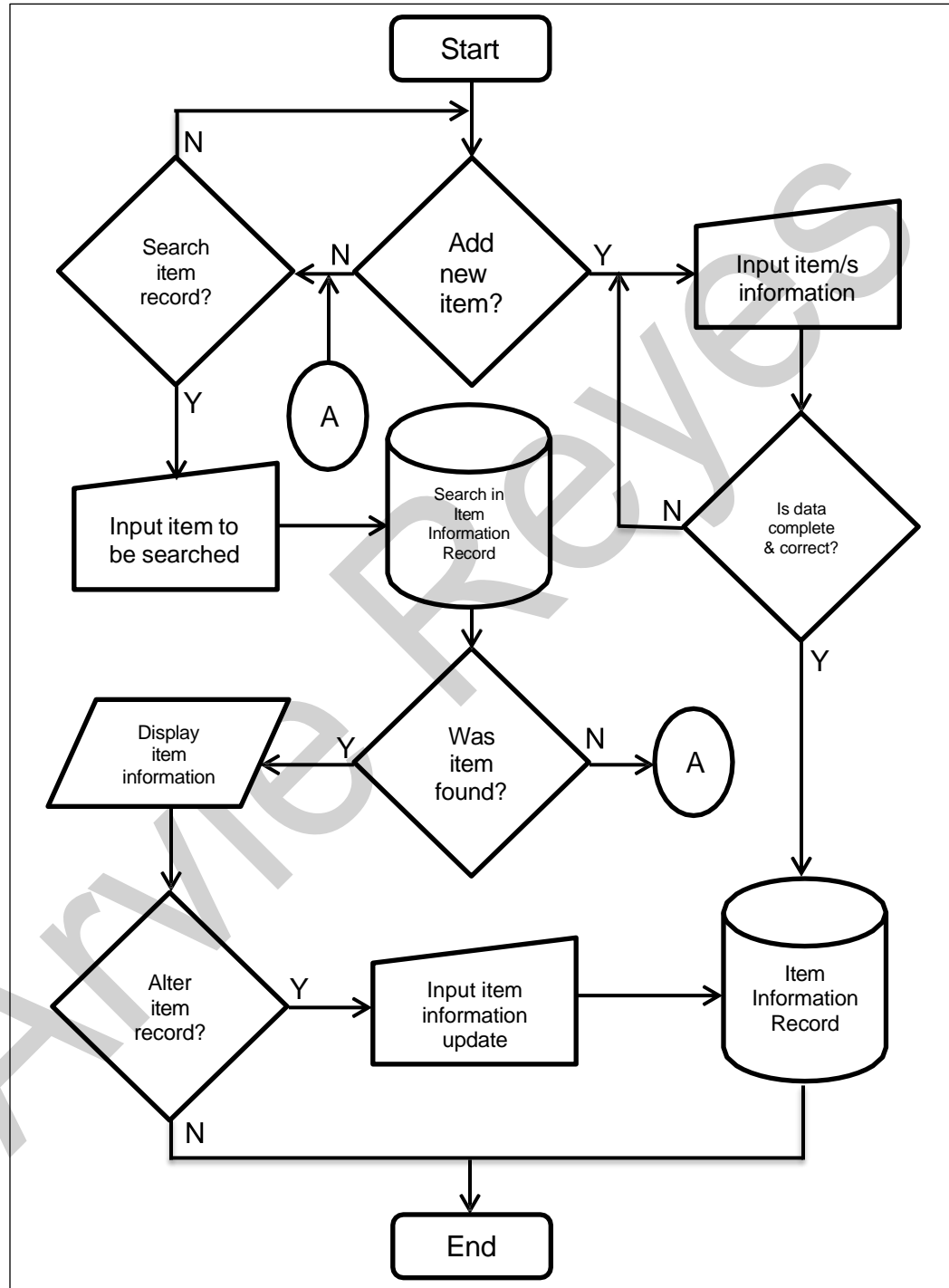
3.5 Flowchart

Figure 3.5.1 "Adding new items along with corresponding

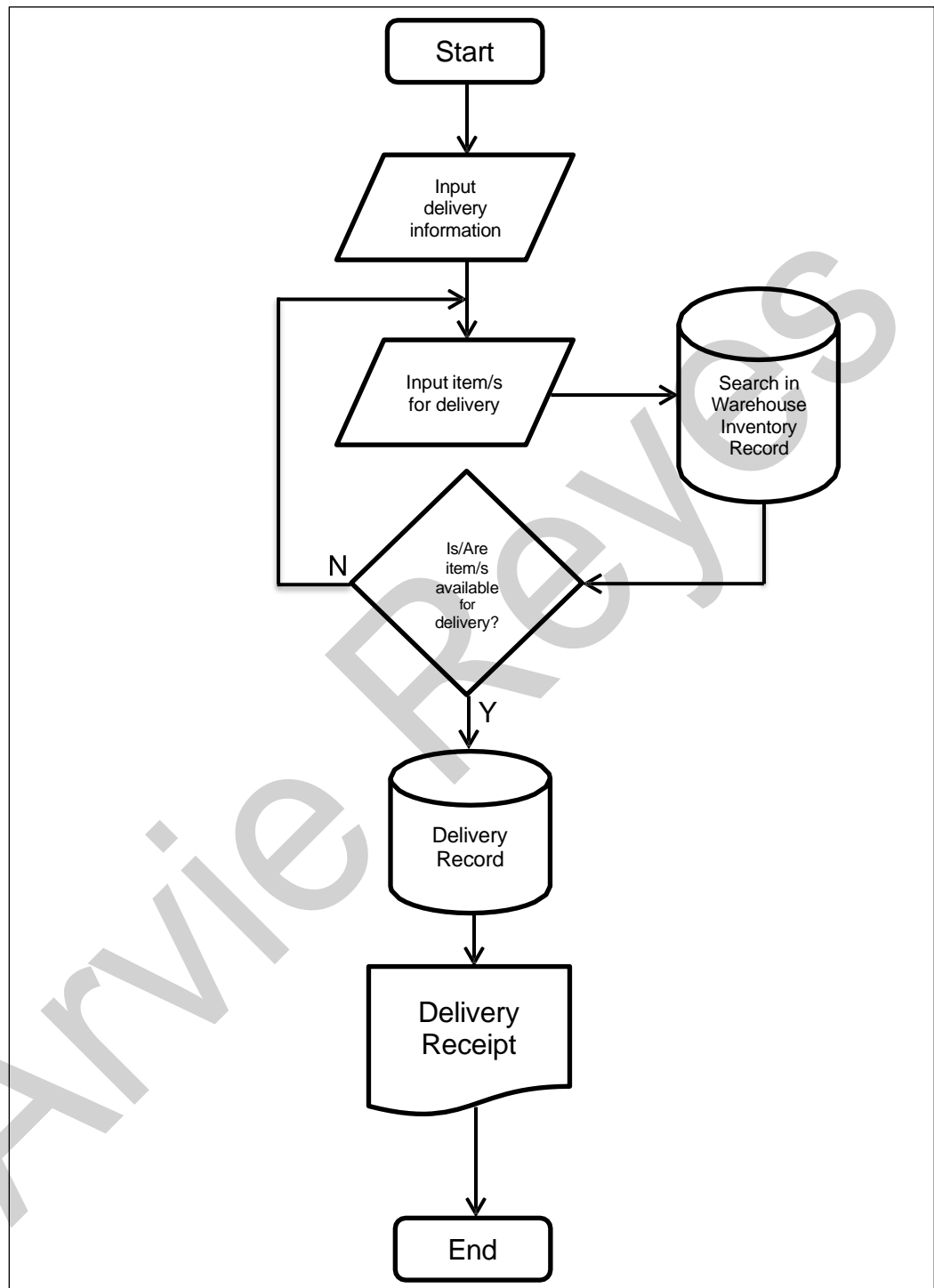*information needed for later retrieval and alteration" Flowchart*

Figure 3.5.2 "Creating delivery receipts for store or event deliveries" Flowchart
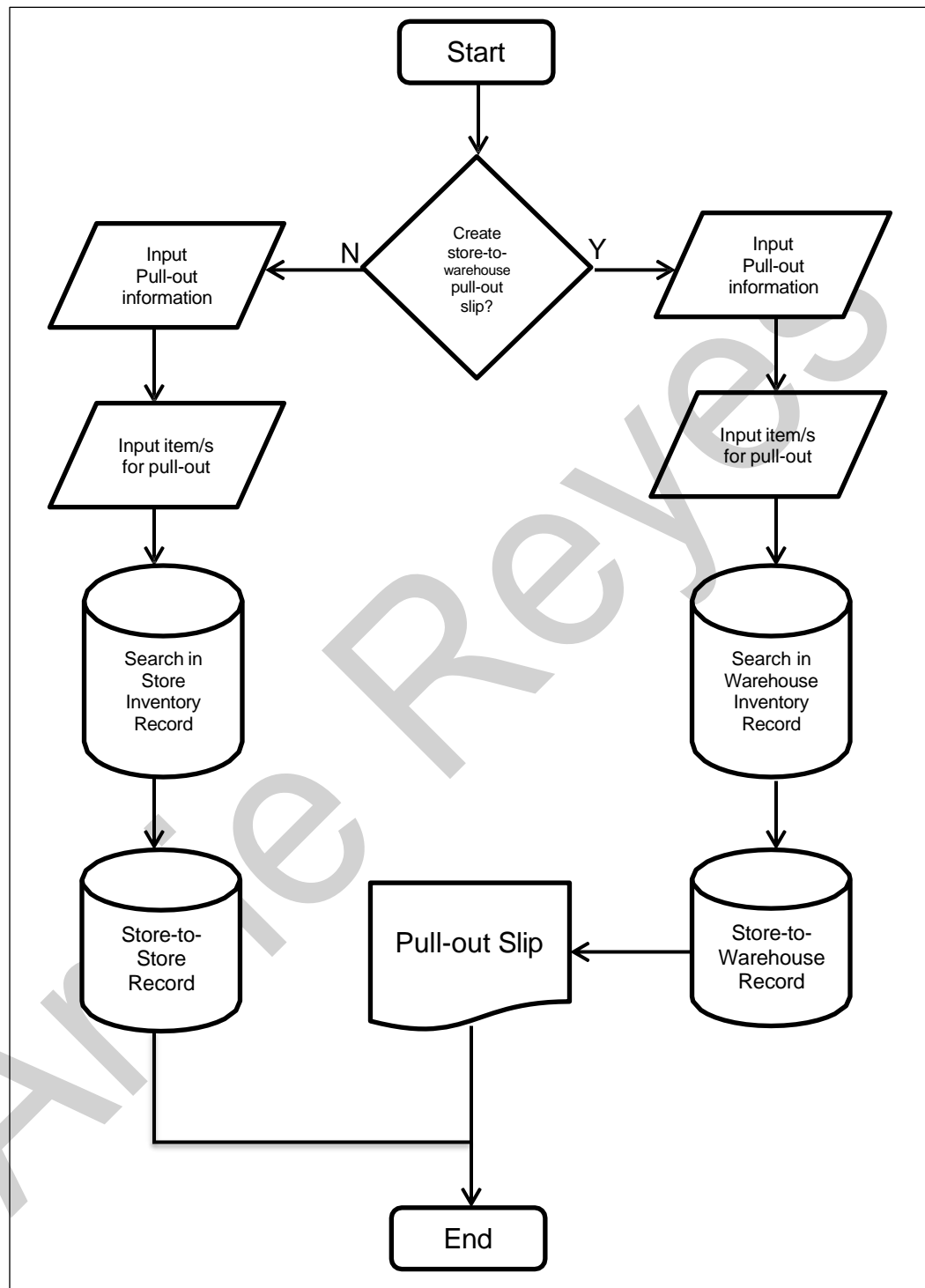
Figure 3.5.3 "Creating pull-out slips for store-to-warehouse pull-outs and updating of

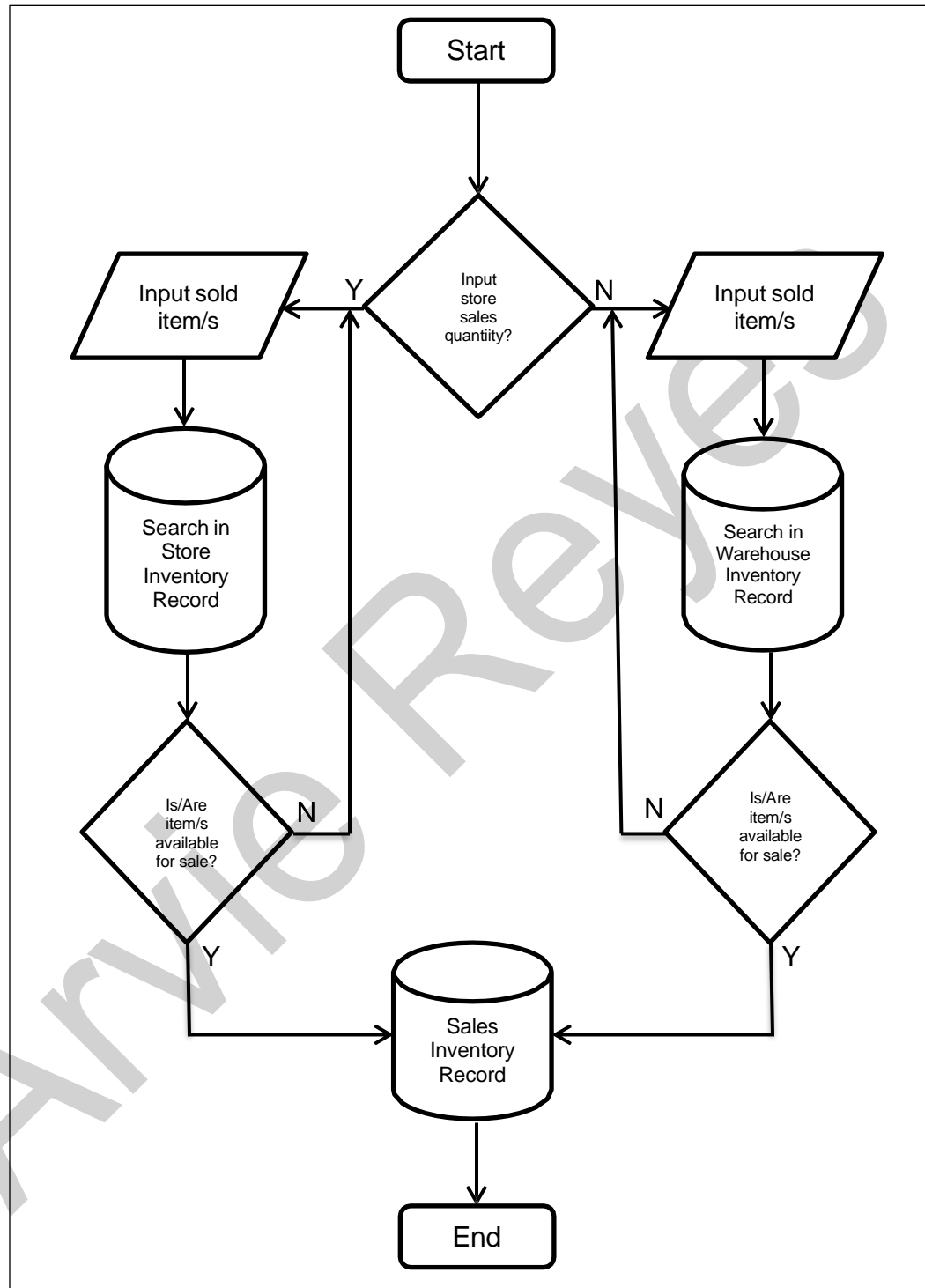*inventory from store-to-store pull-out slips" Flowchart*

Figure 3.5.4 "Updating inventory from store and warehouse sales" Flowchart

Start

Input store sales quantiity?

Y

N

Input sold item/s

Input sold item/s

Search in Store Inventory Record

Search in Warehouse Inventory Record

Is/Are item/s available for sale?

N

Is/Are item/s available for sale?

N

Y
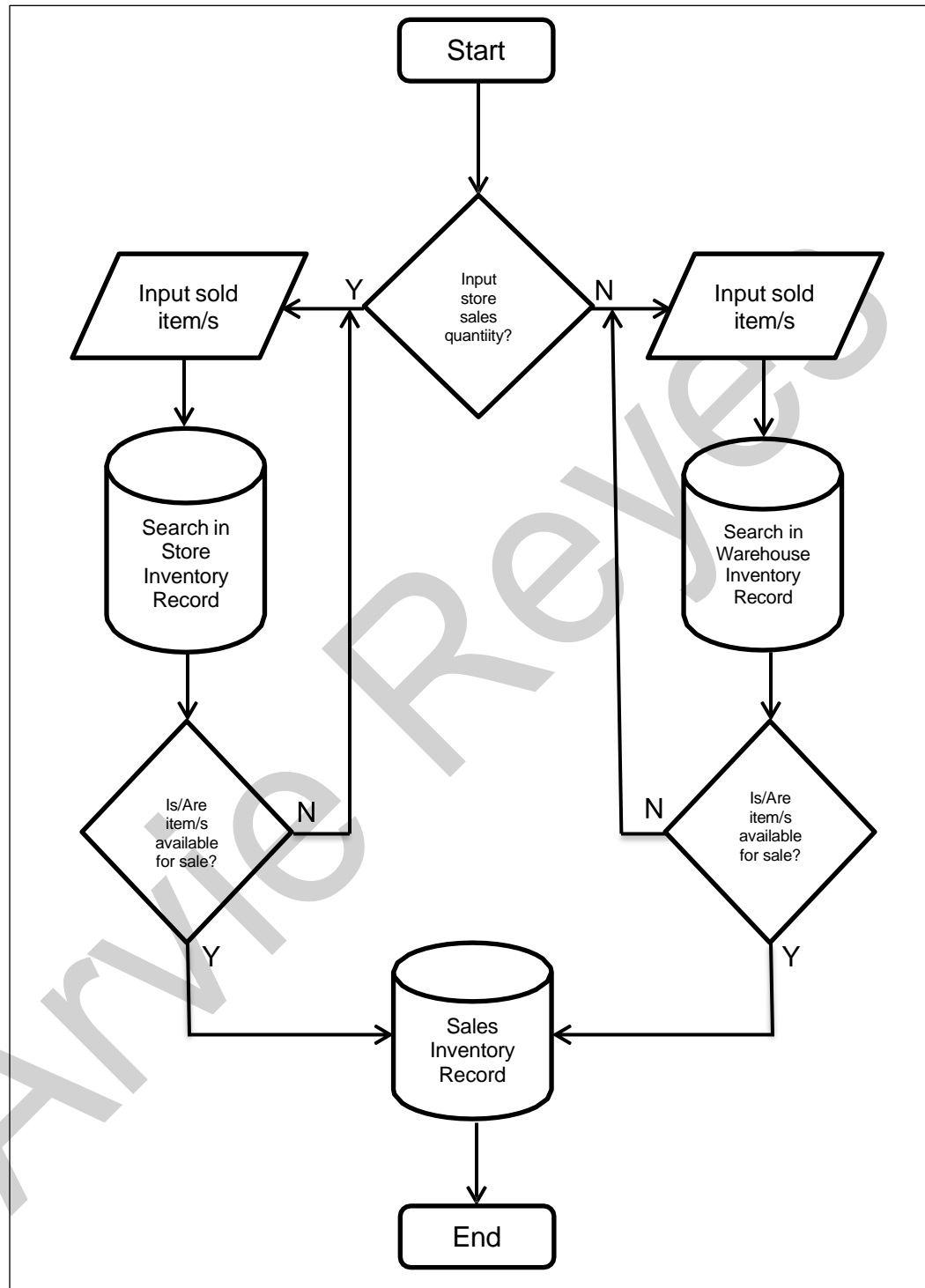
Y

Sales Inventory Record

End

Figure 3.5.5 "Adjusting inventory entries for items with quantity discrepancy based from

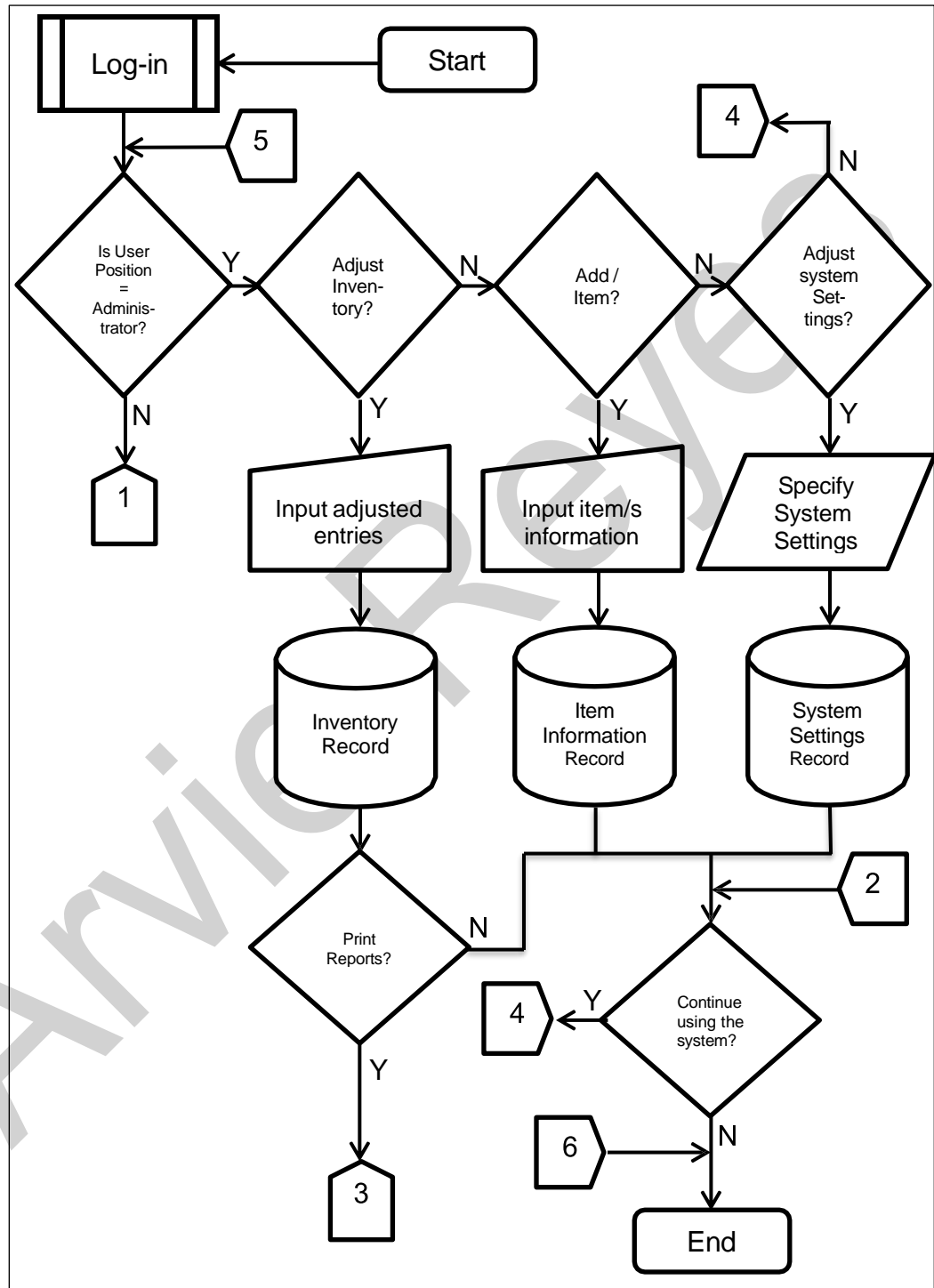*physical inventory reports" Flowchart*

3.6 System Flowchart
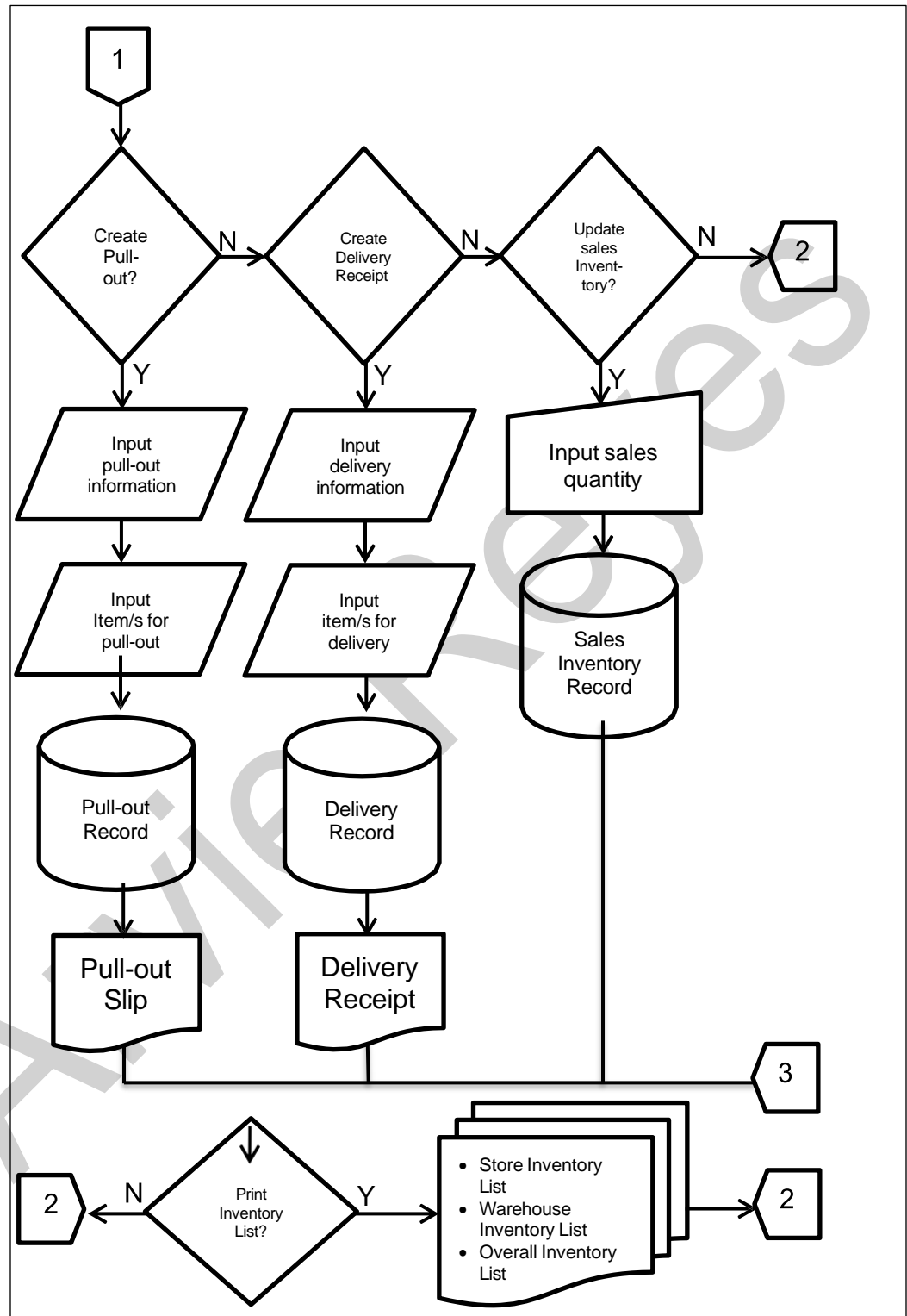

Figure 3.6.1 System Flowchart

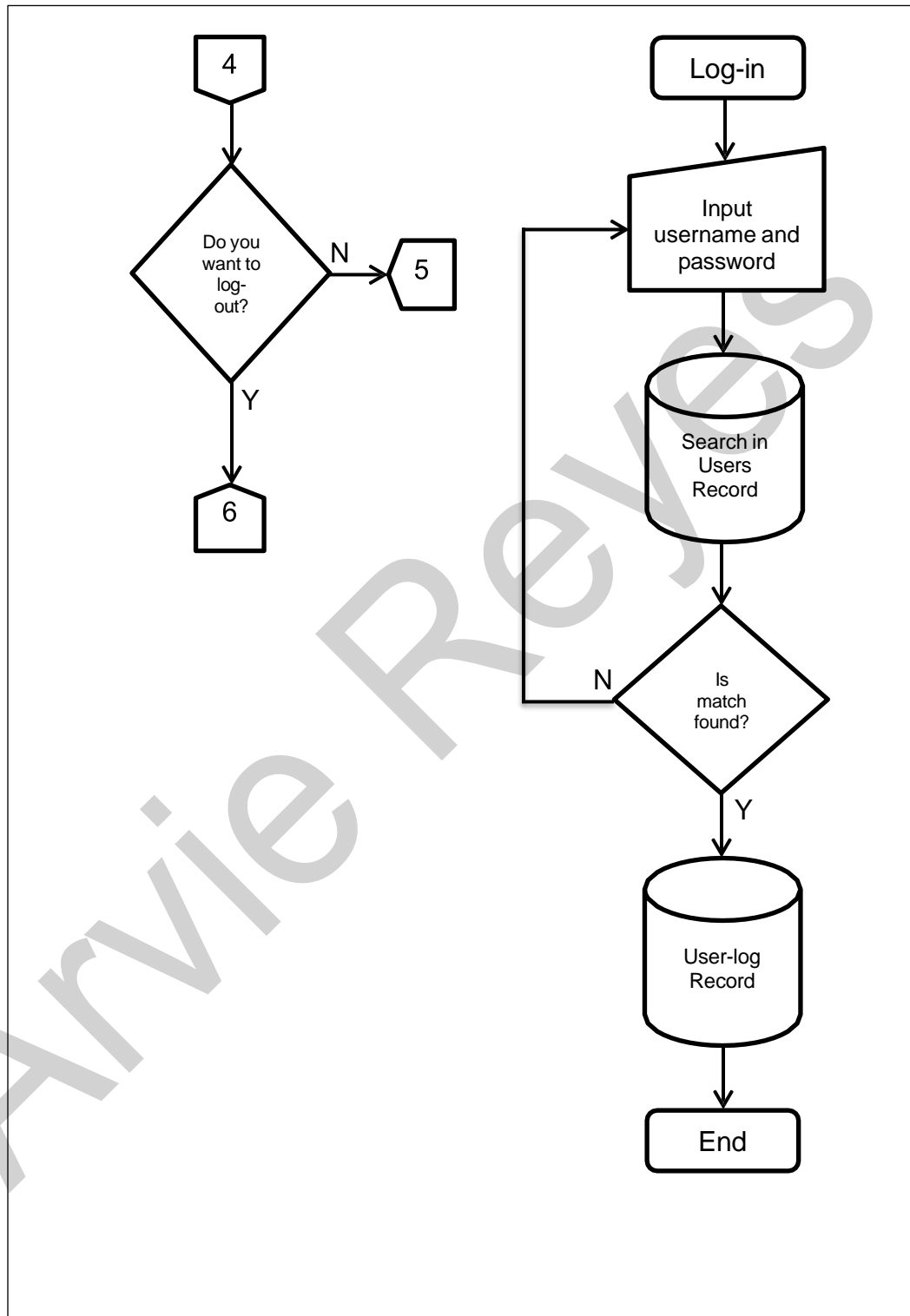*Figure 3.6.1 System Flowchart (continued)*

Figure 3.6.1 System Flowchart (continued)
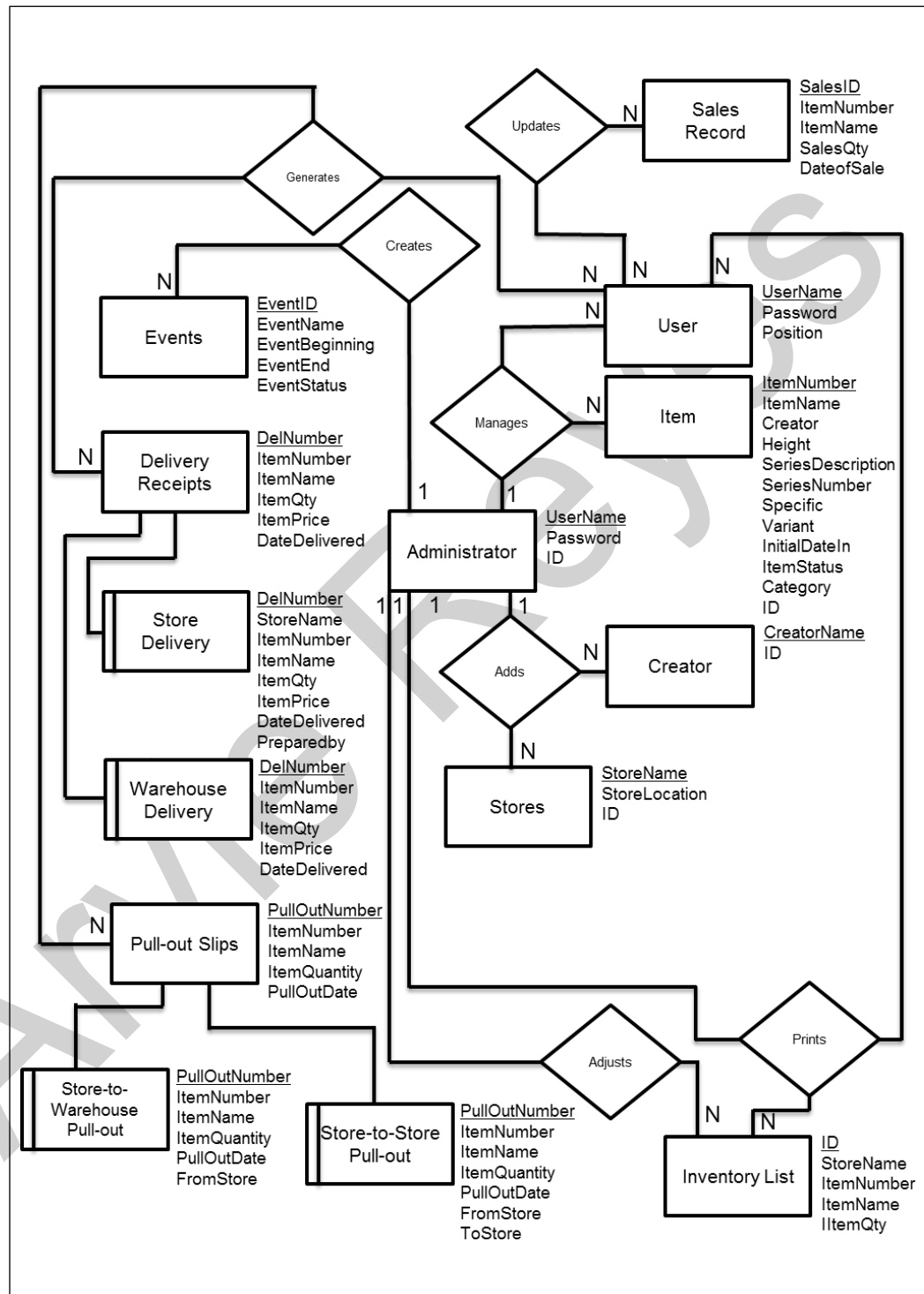
3.7 Entity Relationship Diagram

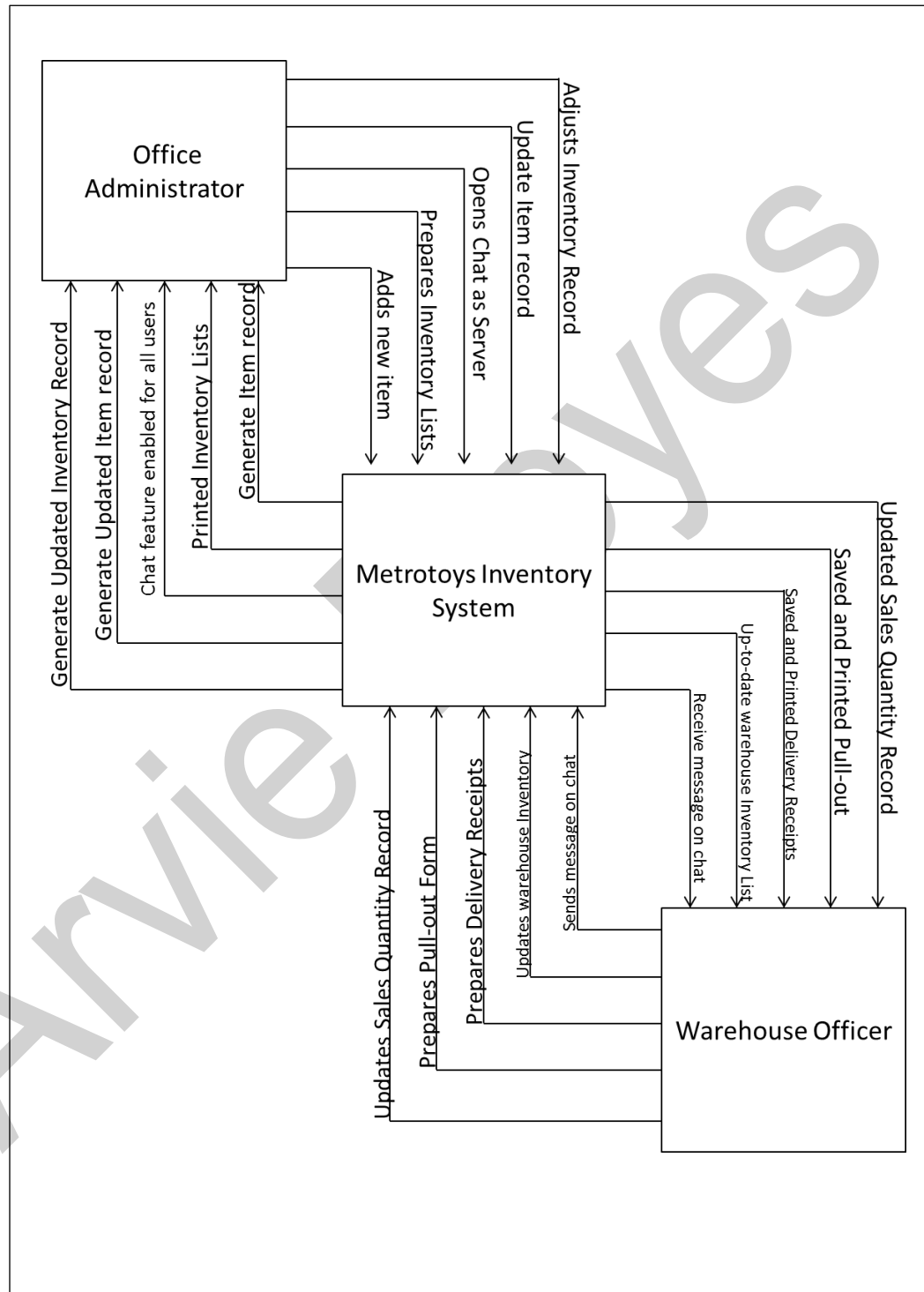*Figure 3.7.1 Entity Relationship Diagram*

3.8 Data Flow Diagram

Figure 3.8.1 Data Flow Diagram

3.9 System Modules

A. User Log-in Module

User Log-in Module filters features available to be used depending on the user's position. Consequently, this also secures the system for unauthorized usage.

B. Information Module

This module is where adding, updating, deleting of item information can be done. It is especially available for Administrator position only to minimize or even eradicate inconsistencies with item naming.

C. Deliveries Module

This module is where the generation of delivery receipts are prepared, may it be Warehouse Deliveries, Store Deliveries or Event Deliveries. The module also automatically updates delivery inventory record on warehouse and store depositories.

D. Pull Outs Module

This module is where records pull-outs (Store-to-Store and Store-to-Warehouse) are updated and generates pull-out slips (for Store-To-Warehouse only). All pull-out transactions are then automatically deducted and/or added to the respective depositories.

E. Sales Quantity Module

Sales quantity record of events, stores and warehouse are updated in this module which also updates inventory of depositories for every transaction.

F. Search Module

This module caters fast item location information and availability.

G. Reports Module

The Reports module is where printing of inventory lists from different depositories that can serve as cross-basis for physical inventory counts.

H. Chat Module

a. Server Chat Module

This module is available for server side only with the prime purpose of hosting the multi-chat service of the system.

b. Client Chat Module

This module connects the client side of the system to the server and other clients currently connected to the system.

G. Administrator Settings Module

This module contains different function for the management of system settings such as:

a. User Accounts Module

Adding, updating and deletion of users can be executed here.

b. Stores List Module

List of existing stores can be set up and edited in this module.

c. **Events List Module**

List of special events can be set up, edited and closed in this module.

d. **Item Category List Module**

List of item category can be set up and edited in this module.

e. **Item Creator List Module**

List of item creator / brand can be set up and edited in this module.

f. **Packs and Bundle Module**

This is where the Administrator can create item bundles and packs.

g. **Adjustments Module**

In this module the administrator is allowed to make certain adjustments to the quantity count for reasons like error in physical counting or shoplifted items. Items to be packed or bundled are also adjusted here.