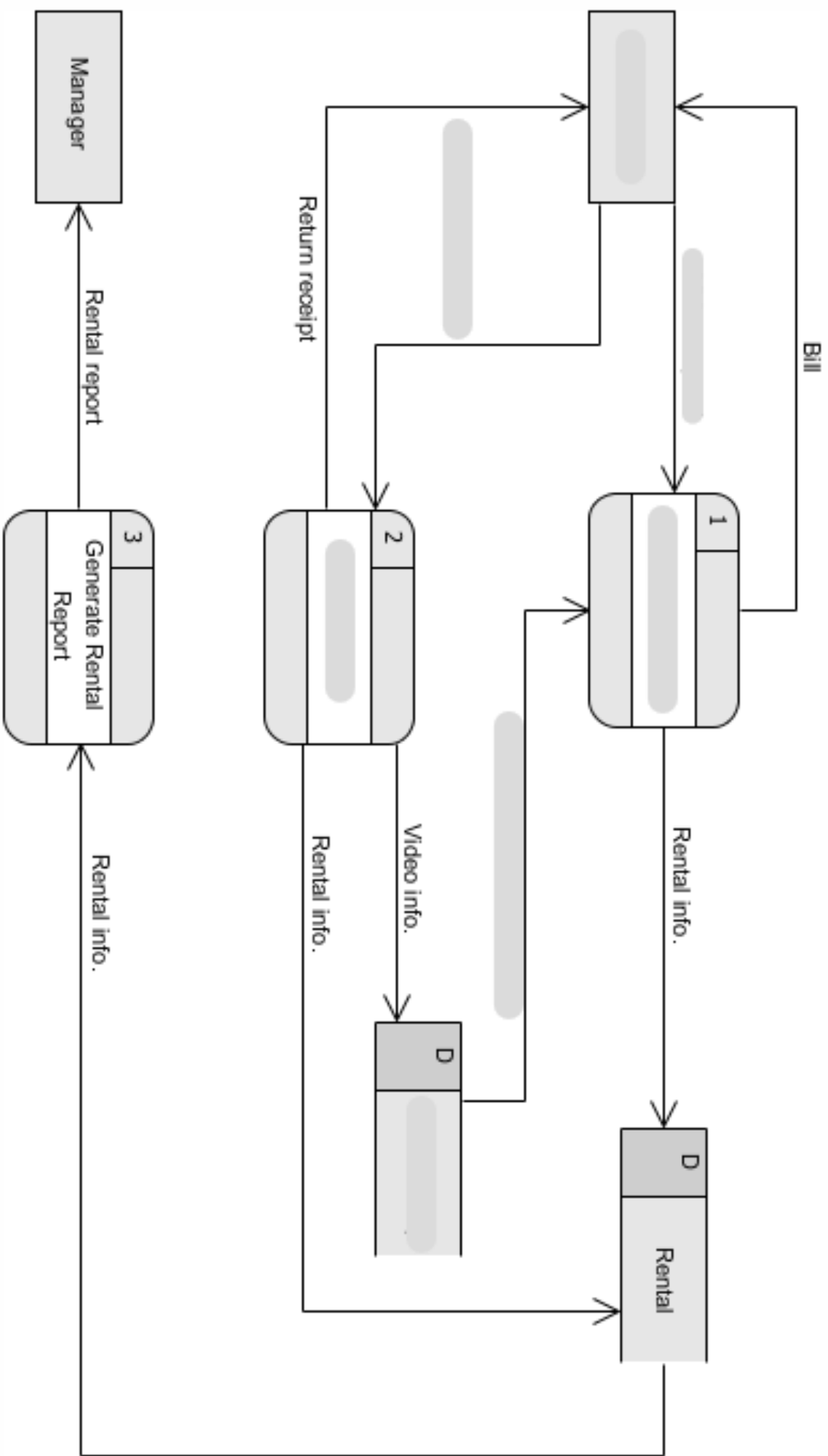**Scenario 1**

Video Rental

Customer makes a Video request to the Rent Video process. The Rent Video process also receives Video info. from the Video Library data store. As a result, the process produces a Bill to the Customer, and stores the Rental info. into the Rental data store.
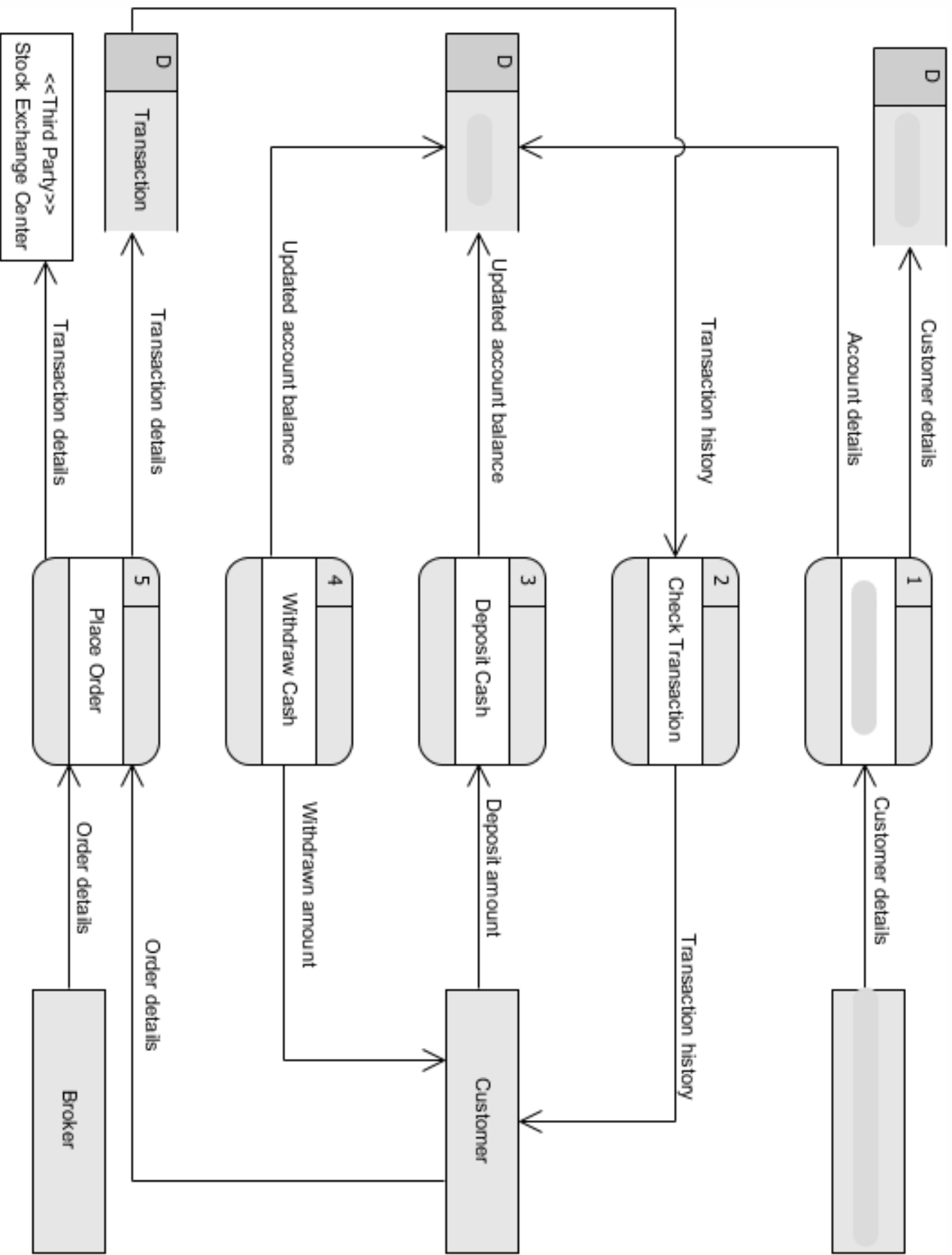
A Customer can Return Video by providing Video & Rental info. The process stores the Video info. into the Video Library data store and Rental info. into the Rental data store. As a result, Return receipt is delivered to the Customer. Although we said that the receipt is delivered as a result of the Return Video process, the Data Flow Diagram implies no such thing. It is our common sense that lead us to interpret the diagram in the way that we understand it naturally. Strictly speaking, the diagram only tells us the Return Video process receives Video & Rental info. and produces Video info., Rental info., and Return receipt, with no order specified.

Manager

Rental report

Return receipt

Bill

3	Generate Rental Report

2	

1	

Rental info.

Video info.

Rental info.

Rental info.

D	

D	Rental

Scenario 2
Securities Trading

Customer Service Assistant provides customer details to the Open Account process. The result is the Customer details being stored in Customer data store and Account details being stored in Account data store. Although we said that the attempt to store customer and account details happens after the details are being provided by the Customer Service Assistant, the Data Flow Diagram implies no such thing. It is our common sense that lead us to interpret the diagram in the way that we understand it naturally. Strictly speaking, the diagram only tells us the Open Account process receives customer details and produce customer and account details, with no order specified.

Data flow diagram

Element	Flow labels
D — Transaction	Transaction details
D	Updated account balance
D	Account details, Customer details
1	Customer details
2 — Check Transaction	Transaction history
3 — Deposit Cash	Deposit amount, Updated account balance
4 — Withdraw Cash	Withdrawn amount, Updated account balance
5 — Place Order	Order details, Transaction details
<<Third Party>> Stock Exchange Center	Transaction details
Customer	Customer details, Transaction history, Deposit amount, Withdrawn amount, Order details
Broker	Order details

Scenario 3

Supermarket

Customer can receive Hot promotion news from the Check Latest Promotions process and the news is provided by the Company database. Note that by common sense we know that Check Latest Promotions is likely to be a feature of the app but the Data Flow Diagram itself implies no such thing. Theoretically speaking, a process in Data Flow Diagram may correspond to a feature or a set of features.

A Customer can Build Shopping List by providing Items details and the details will be stored in the Shopping Cart database. The Warehouse database will also provide the Items details required to complete the process.

A Customer can receive Shopping list details from the View Shopping List process and such details is provided by the Shopping Cart database.

A Customer can receive Items details by performing the Search Items process. He/she must provide an Item name for searching and the item details are returned from the Warehouse database after searched.