

CPSC 3720

Lesson 28

Connie Taylor
Professor of Practice


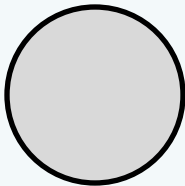
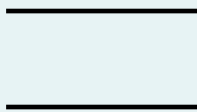



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Class Updates

- Sprint 1 due today – I will look through your Trello boards and for API information on the team Workspace in Postman. I will run your mock as well (all of this is in the Rubric attached to the assignment).
- Quiz 3 will be due at 11pm on Tuesday Oct 27. It will cover class 18+; same format as past quizzes (15 min, 5 questions, open note)
 - RESTful APIs
 - JSON
 - Definitions – Microservices, etc.
 - DFDs

DFD Notation

Entity	Yourdon/De Marco	Definition
External Entity		An external entity can represent a human, system or subsystem. It is where certain data comes from or goes to. It is external to the system we are designing.
Process		A process is a business activity or function where the manipulation and transformation of data takes place. A process can be decomposed to finer levels of detail.
Store		A data store represents the storage of persistent data required and/or produced by the process.
Flow		A data flow represents the flow of information, with its direction represented by an arrowhead that shows at the end(s) of flow connector.

CUSports Services

TEAM	SERVICE	Purpose
1 – Da Bagel	<i>Inventory</i>	Create and update inventory levels for items; updates items when inventory levels change
2 – Dynamic Devs	<i>Search</i>	Maintains an optimized index for searching items by various parameters
3 - Chaos	<i>Payment</i>	Processes payment transactions for orders
4 – image(4).png	<i>Pricing</i>	Calculates the price of an item based on promotions and customer locale (tax)
5 – Rick Roll	<i>User Accounts</i>	All information about the users of the CUSports system including customers
6 – Constant Tailors	<i>Promotions</i>	An engine that will generate the discount for the cart based on certain rules
7 – Heads Up 7 Cups	<i>Cart</i>	Maintains the shopping information for a customer until it becomes an order
8 – Team Gr8	<i>Orders</i>	Used for tracking the state of a purchase
9 – Gibby Gang	<i>Notifications</i>	Notify the customer on the status of their order
10 - Ten	<i>Item</i>	All the data about the products you are selling

Sprint 2



- Pick two Epics from the Sprint 2 list in the Trello **3720 All team Hub** (same list as last time) that involve your service
- Create a DFD for the two epics for review by Monday (submit in Canvas and any format); clearly label all processes/data stores and data flows with the entity flows
- You will add the DFD work to your overall sprint tasks and it will also be part of the rubric for this sprint
- You will create APIs that are required to support these two Epics
- All deliverables are the same as Sprint 1 + DFDs (see rubric)

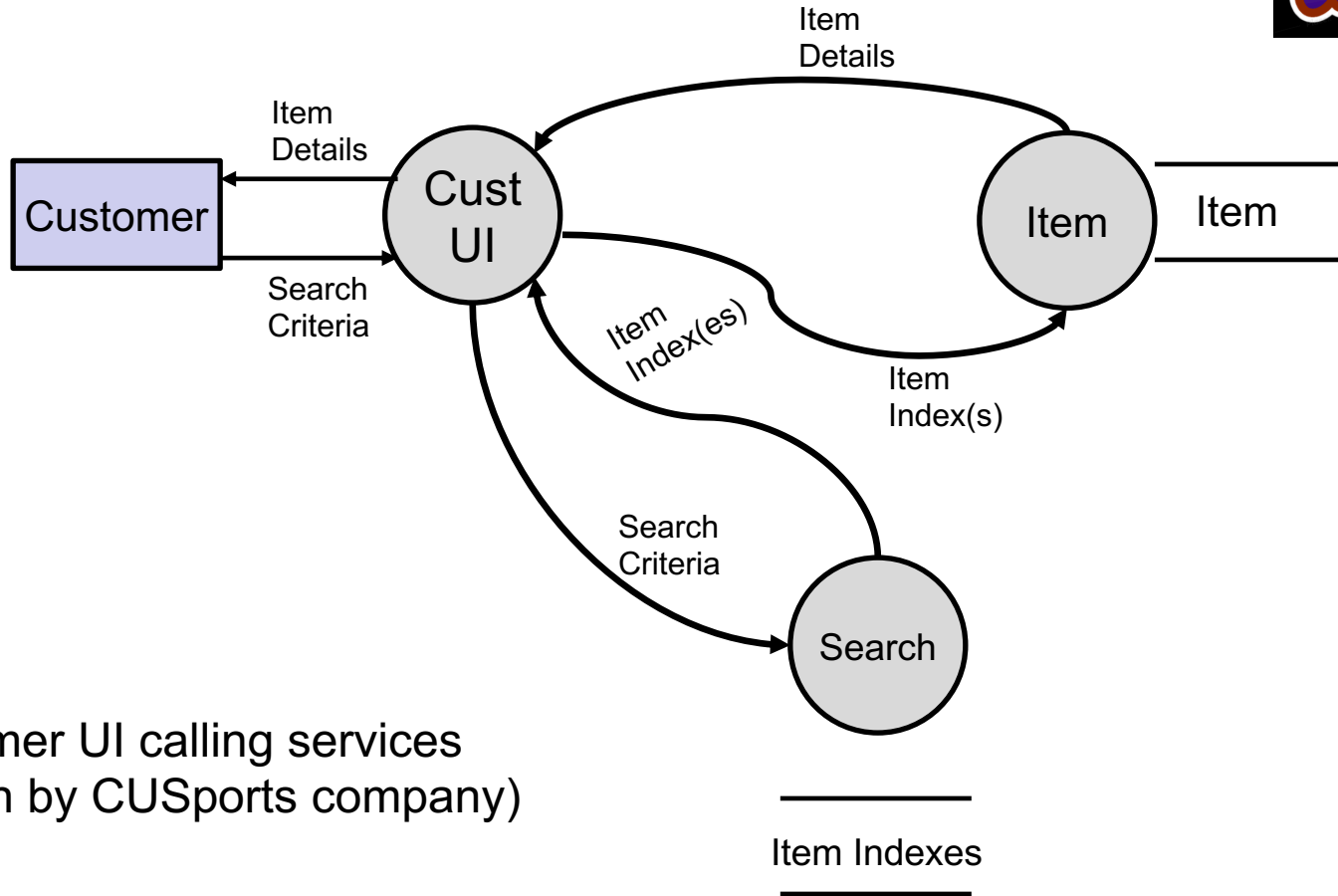
CUSports Service Call Origination



- Ecomm UI
- Corporate/Internal/Admin UI
- Another Service
- Another application/user calling APIs directly or through some type of corporate interface (wrapper)

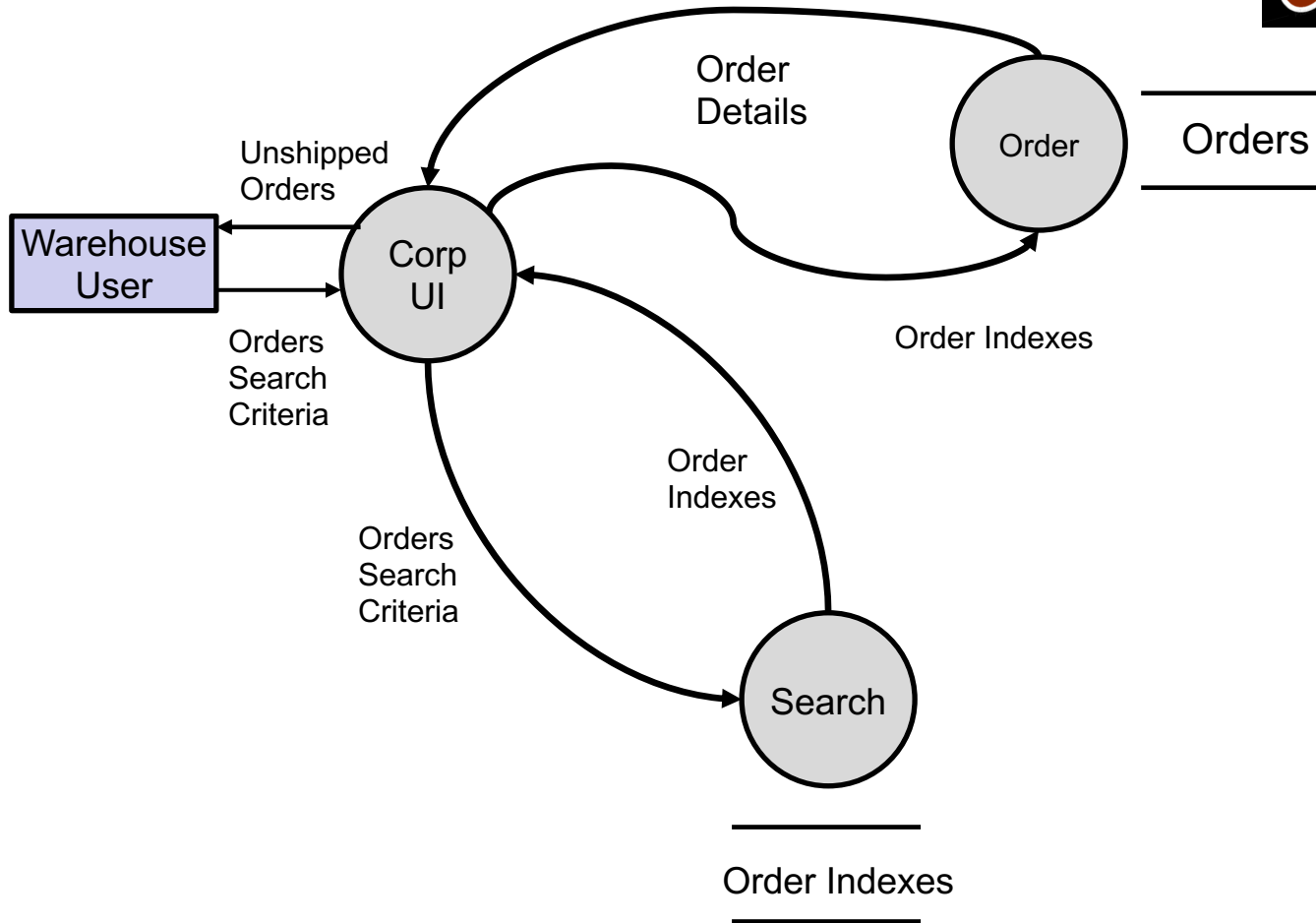
CUSports – Service call origination

Customer/Ecomm UI



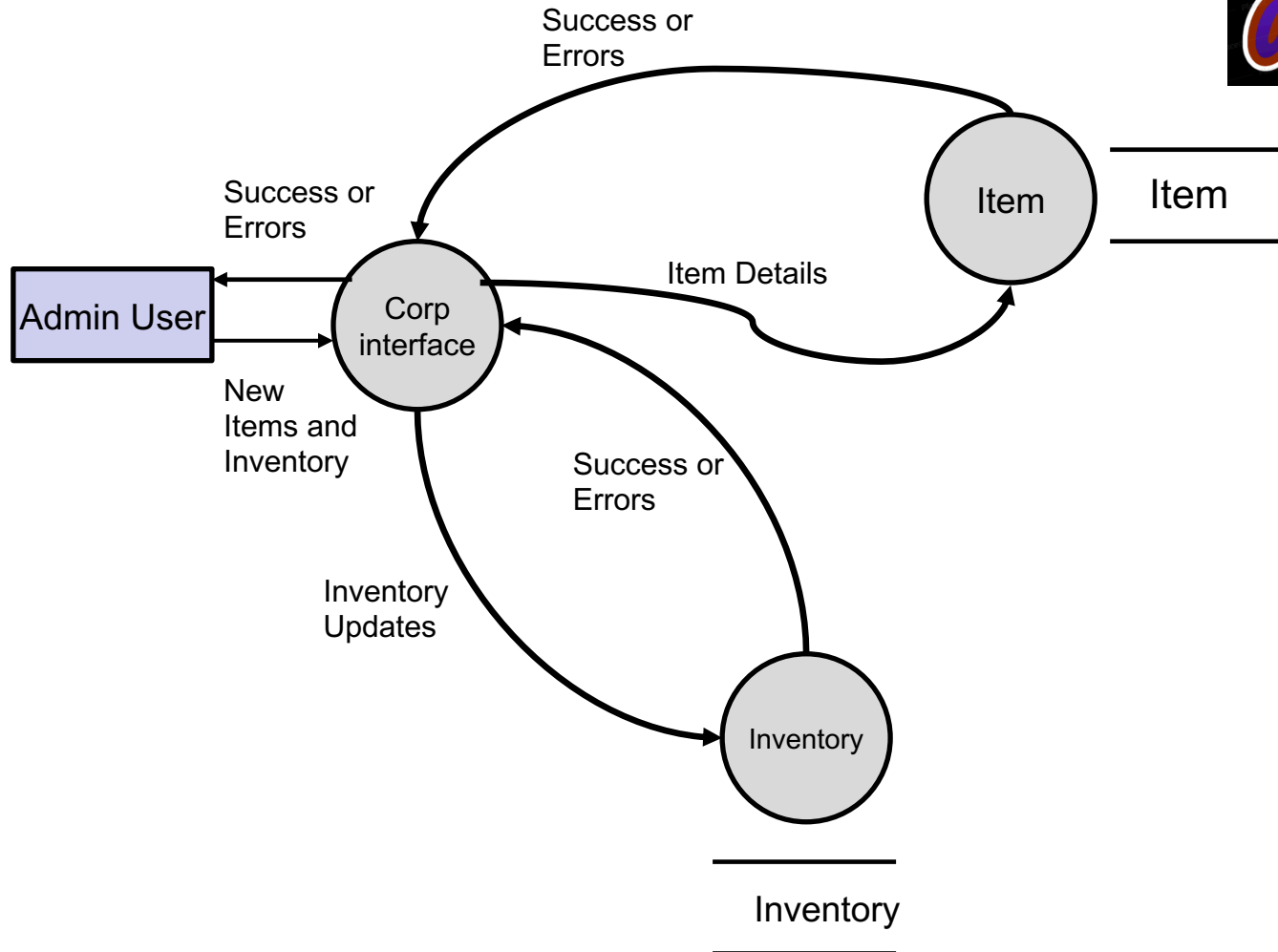
CUSports – Service call origination

Admin/Corporate UI



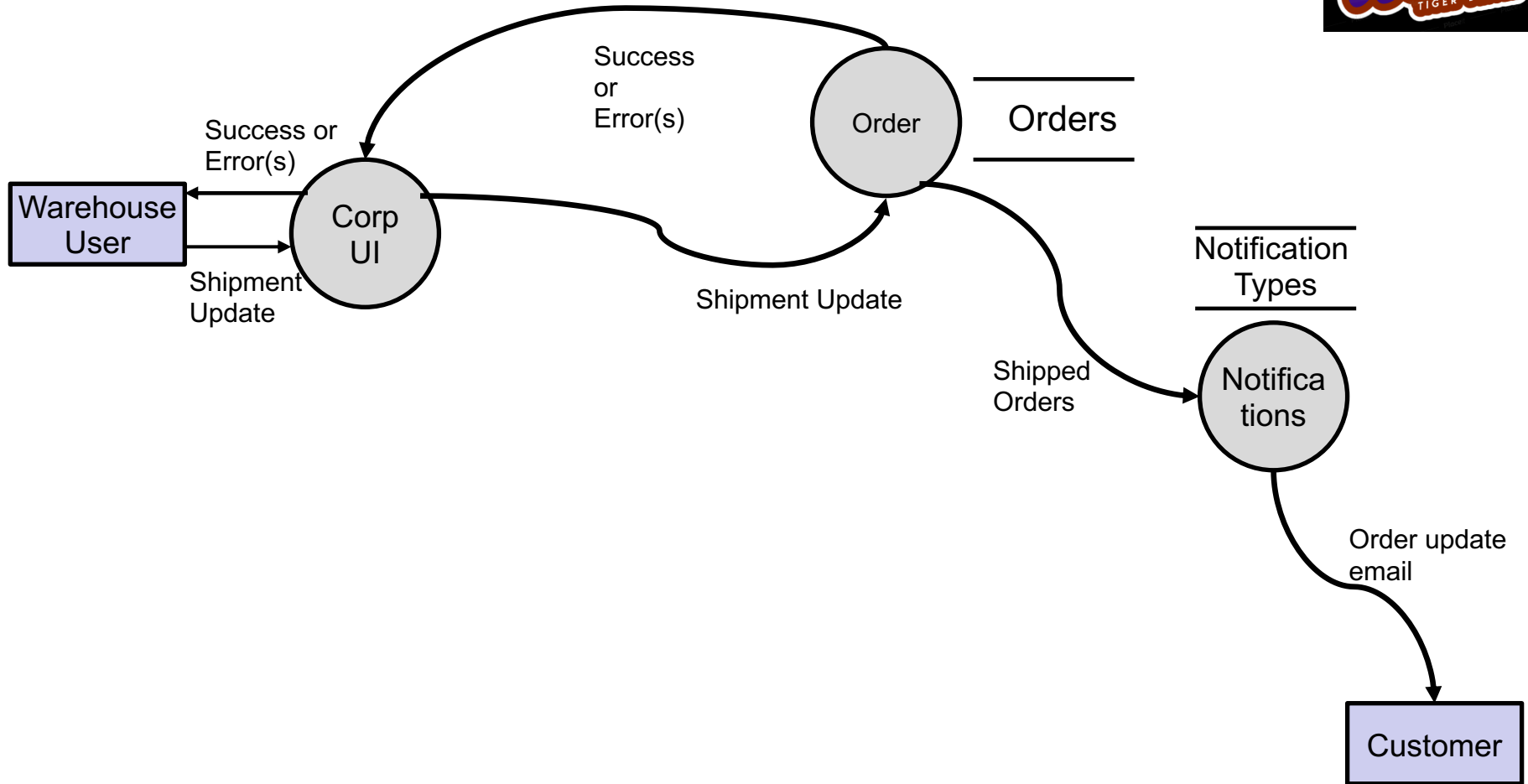
CUSports – Service call origination

Admin/Corp Direct Interface



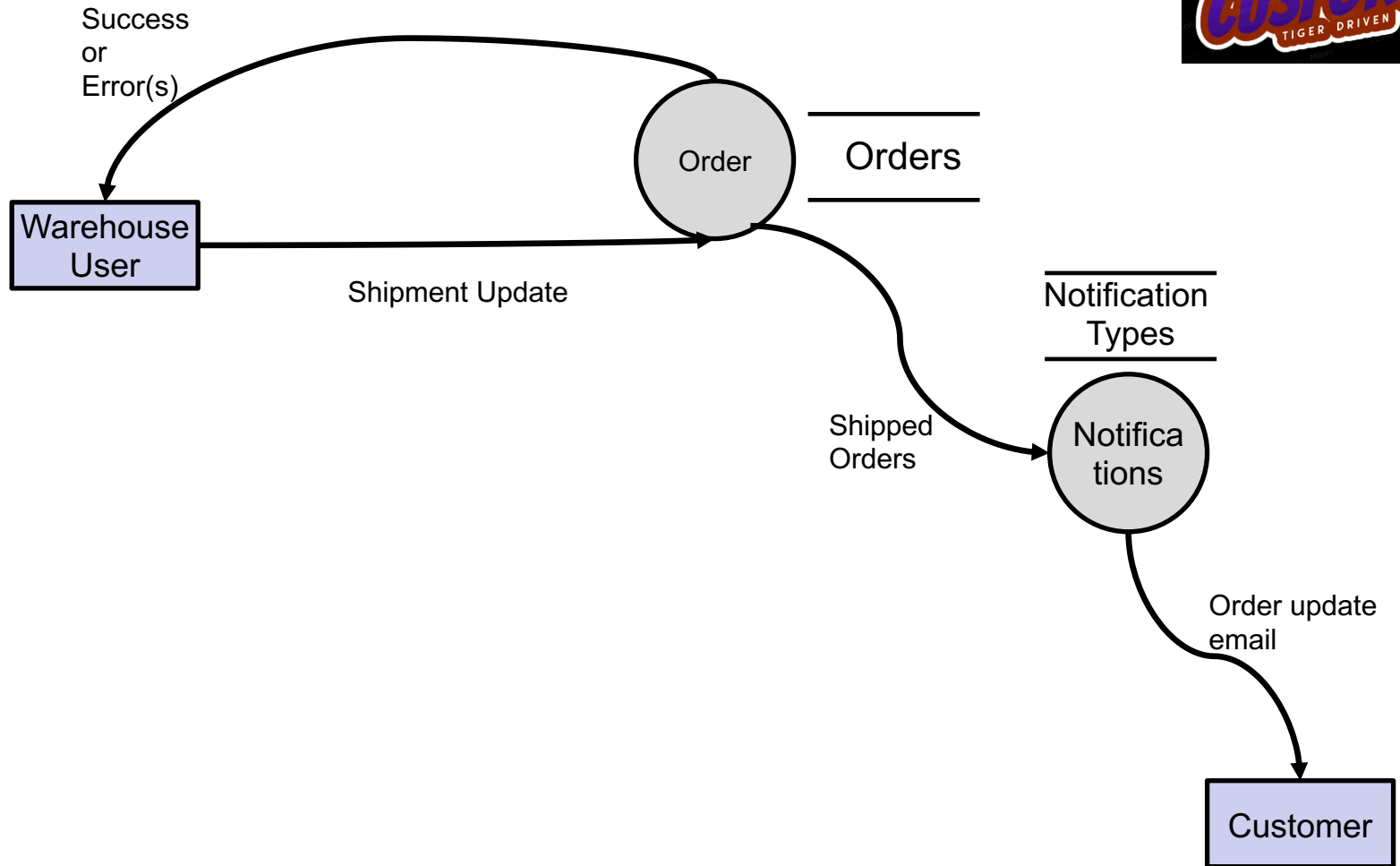
CUSports – Service call origination

Another Service



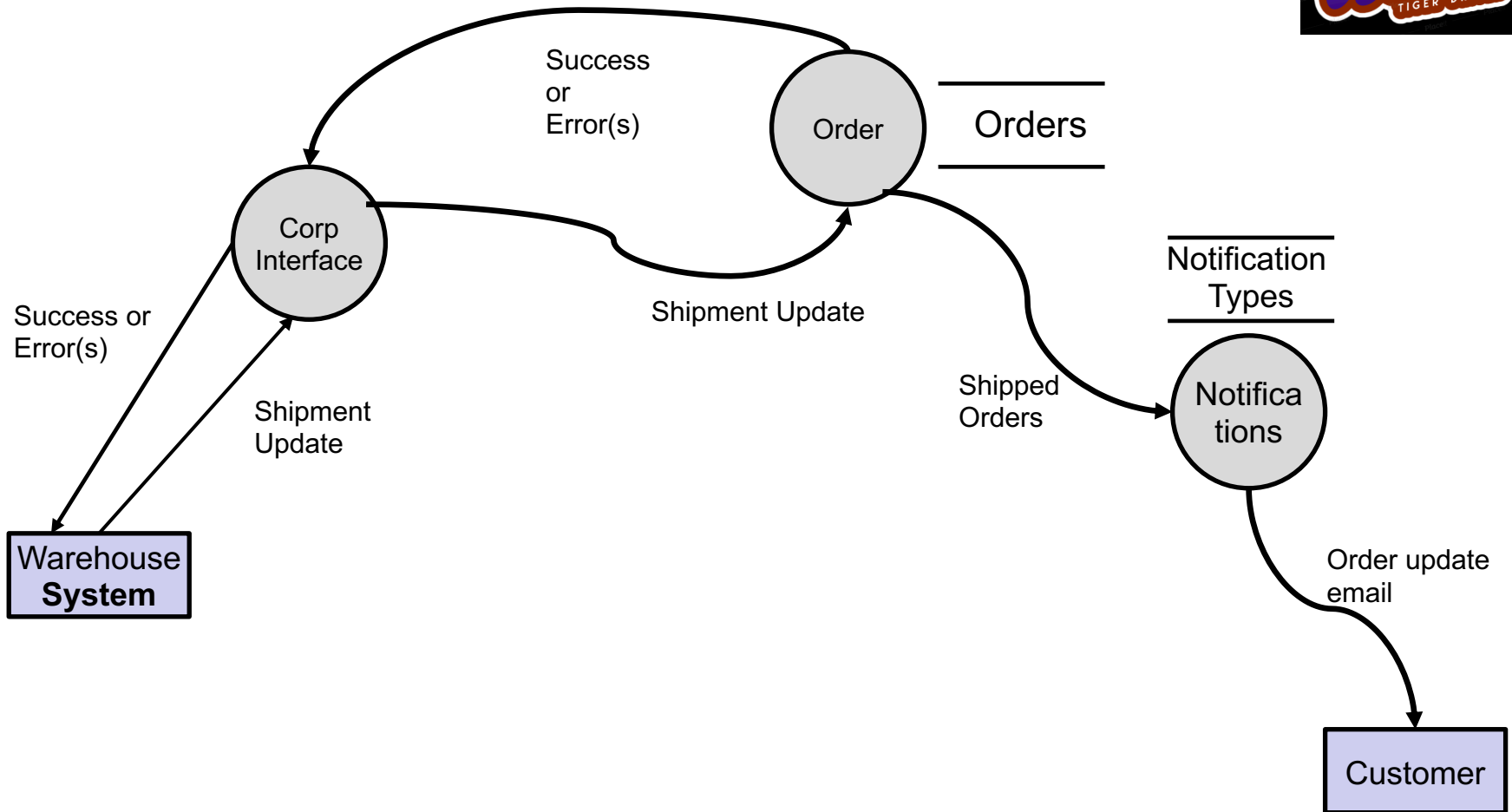
CUSports – Service call origination

Another Service



CUSports – Service call origination

Another Application



CUSports – Service call origination

Another Application

