

In Class Exercise

Order Fulfillment System

Prepare a context level Use Case diagram using the UML notation for a multi-channel fulfillment system from following narrative. Identify the high level **architecturally significant** Use Cases needed to develop this system along with the Actors that interact with the system or are external entities

When completed, we will take it up together. You may do this individually or in groups.

System Narrative

The Acme Garden Supply Company sells various gardening products and supplies to the general consumer market. Though they have a large store, an on-line order fulfillment service is also available. All orders are assembled at the company's warehouse and either shipped directly to the customer for on-line orders, or picked up by the customer for in store orders.

Regardless of how customers place orders, all orders are processed in a similar manner. When the order is placed, an invoice is generated by the system, and payment must be tendered immediately (cash, debit or credit for in-store orders; PayPal and credit card for on-line orders). If payment is not successfully completed, the order is rejected.

Once accepted, a "picking list" is sent to the warehouse which identifies to the staff there, which items must be assembled and packaged for pick-up or delivery to the customer. The warehouse staff updates the system when the order has been completed.

At the end of each business day, cash deposits are made at the bank and the accounting system is updated with details of all completed sales transactions.