

### Sequence Diagrams

- ❖ One type of *Interaction diagram*
- ❖ Illustrates events from actors to system components in their proper sequence of occurrence
- ❖ Investigates the components of the system, but is still an analysis tool
- ❖ Involves actors and objects from the domain performing needed operations

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### System Sequence Diagram

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### System Events & Operations

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### Recording System Operations

- ❖ Operations belong to the class from which an object is instantiated
- ❖ Class diagrams show this detail:

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### How to Make a Sys. Seq. Diag.

- ❖ Represent the entire system as a black box
- ❖ For each actor that interacts with the system, draw a “drop down” line on the dia.
- ❖ Illustrate all the “typical course of events” use cases on the diagram
- ❖ Optionally include use case text which shows control logic, iteration, or clarifies the diagram

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### System Sequence Diagram

**USE CASE: BUY ITEMS**

Typical Course Of Events

1. This use case begins when a Customer arrives at the POST checkout with items to purchase.
2. The Cashier records the universal product code (UPC) from each item. If there is more than one of the same item, the Cashier can enter the quantity as well.
3. System determines the item price and adds the item information to the running sales transaction. The description and price of the current item are displayed.
4. and so on.

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