Example Online Shopping
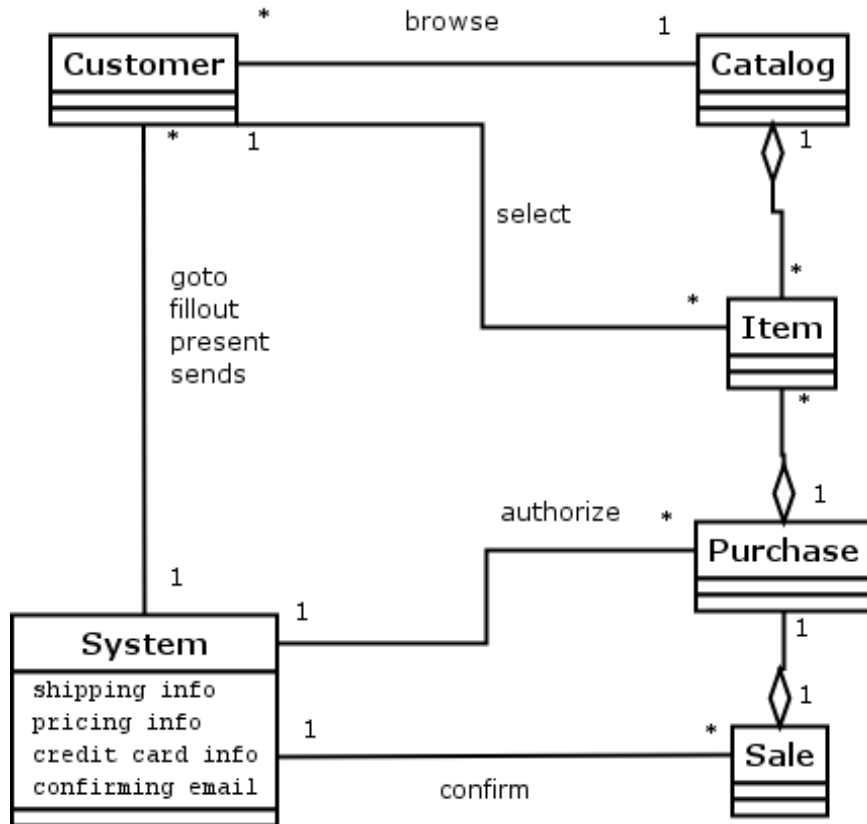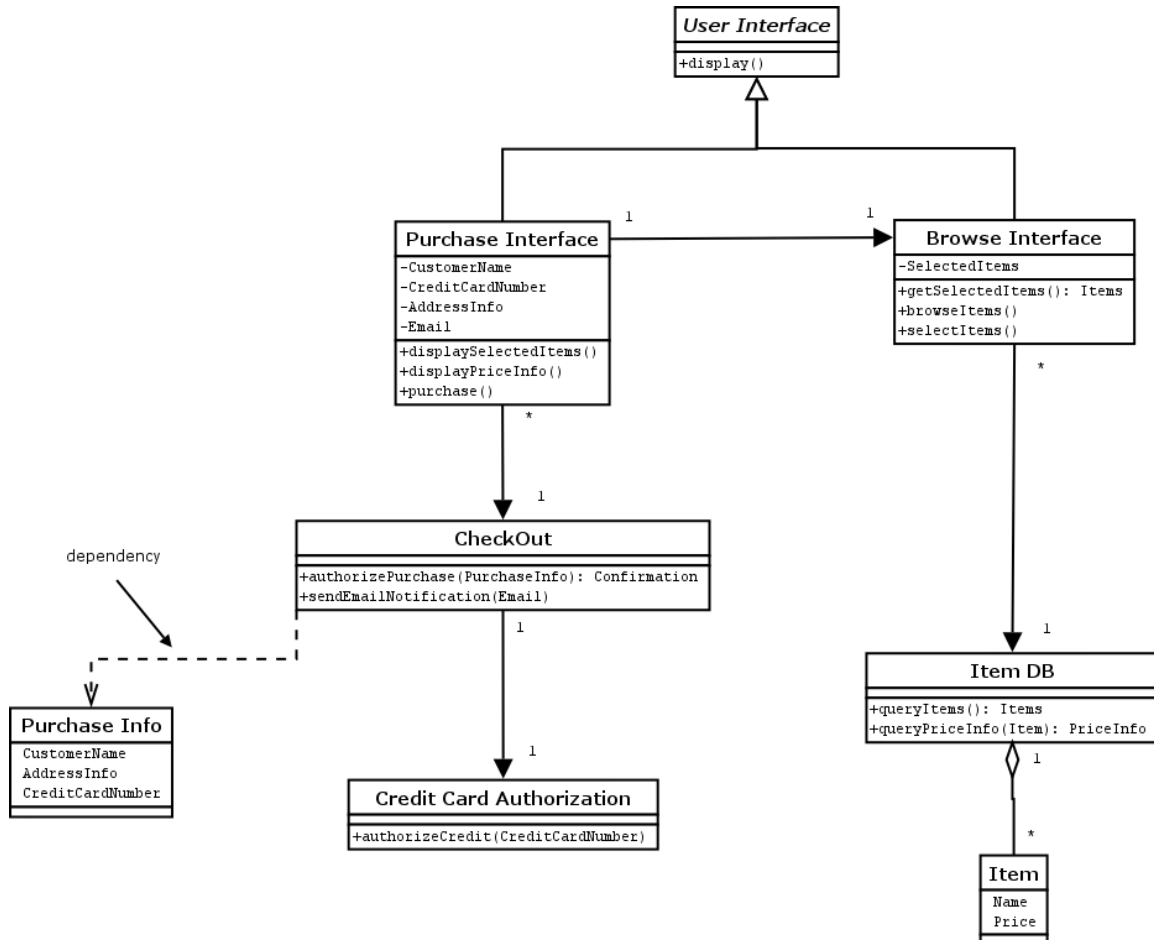# From Concept to Specification Diagrams

The Conceptual Diagram
This diagram was built using noun-extraction techniques applied to the original use case
texts (see previous sections).

The Specification Diagram

We now construct a specification diagram using the conceptual diagram as an inspiration. Note that we are interested in modeling software entities and components, therefore, we should strife to replace domain objects such as users, customers etc. with appropriate software components. In the case of users or customers it might be appropriate to replace the domain objects with user interface objects in the specification diagram.

Finally, we have to <u>validate</u> our specification diagram <u>behaviorally</u>, that is, we have to show that each line in our use case text(s) is supported in a behavioral fashion by the specification diagram.

<u>Use Case Text: Buy a Product Online</u>
1. Customer browses through catalog and selects items to buy.
2. Customer goes to checkout.
3. Customer fills out shipping information.
4. System presents full pricing information, including shipping information.
5. Customer fills in credit card information.
6. System authorizes purchase.
7. System confirms sale immediately.
8. System sends confirming email to customer.

By tracing the action in each use case text line in the specification class diagram we can show that the specification class diagram supports a particular use case text.