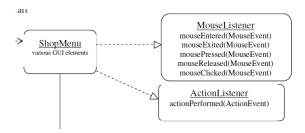
**TABLE 12-1 UML Relationship Symbols** Relationship Symbol Line Style Arrow Tip Inheritance Solid Triangle Interface Implementation Triangle Dotted ----D Aggregation Solid Diamond Dependency Dotted Open

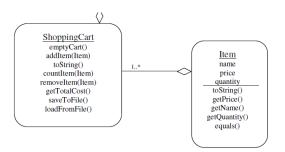
Inheritance exists when a class extends another class. For example if Car extends Vehicle, Car is-a Vehicle, and the relationship would be diagramed like this:

Vehicle

Interface implementation exists when a class implements an interface. For example, the ShopMenu class implements MouseListener and KeyListener, so the relationship is diagramed like this:



Aggregation exists when a class has instance fields which are other classes. For example, ShoppingCart has an ArrayList of Item objects, so it has-a Item. In fact, since it can have one or more Item, you add the 1..\* notation along the line:



Dependency is when a class uses objects of another class, but doesn't own them (as instance fields). For instance, the Shop class instantiates a ShoppingCart object, but it is not an instance field:

